ELECTRONIC CASH REGISTER

TE-2400

User's Manual



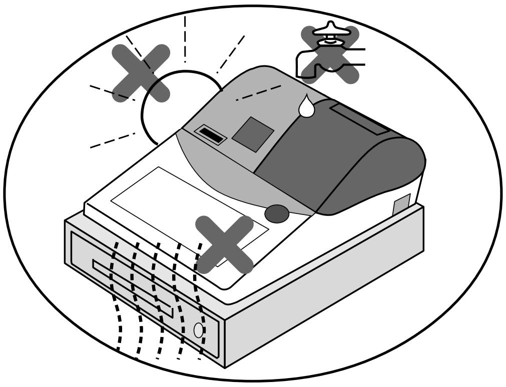
Eu   Di   U.K.

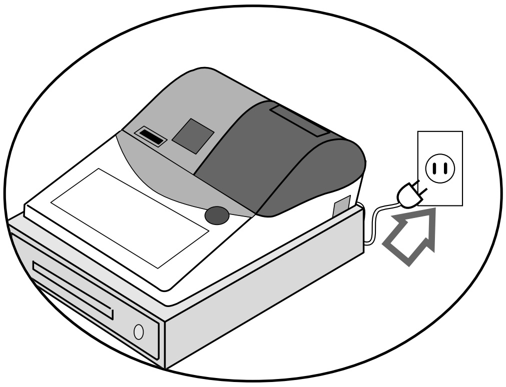
CASIO®

Important!

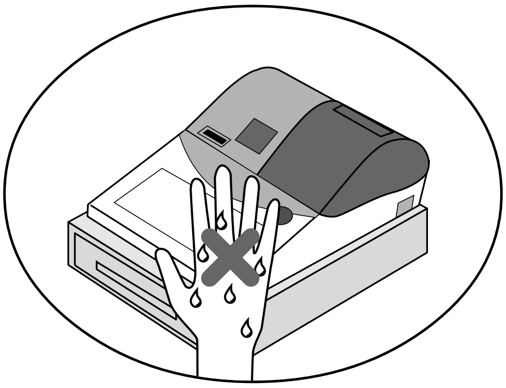
Your new cash register has been carefully tested before shipment to ensure proper operation. Safety devices eliminate worries about breakdowns resulting from operator errors or improper handling. In order to ensure years of trouble-free operation, however, the following points should be noted when handling the cash register.

Do not locate the cash register where it will be subjected to direct sunlight, high humidity, splashing with water or other liquids, or high temperature (such as near a heater).

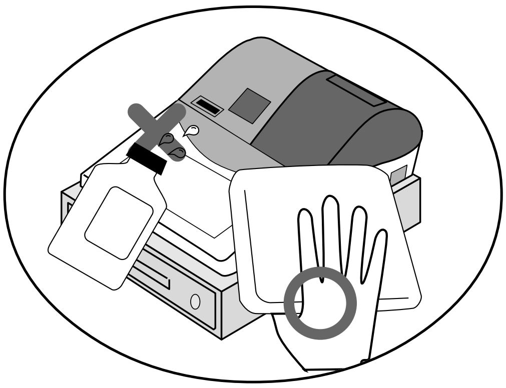




Be sure to check the sticker on the side of the cash register to make sure that its voltage matches that of the power supply in the area.

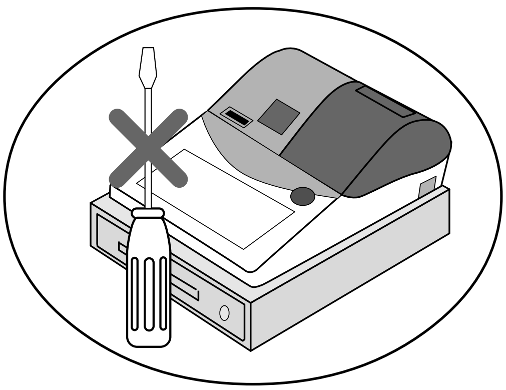


Never operate the cash register while your hands are wet.



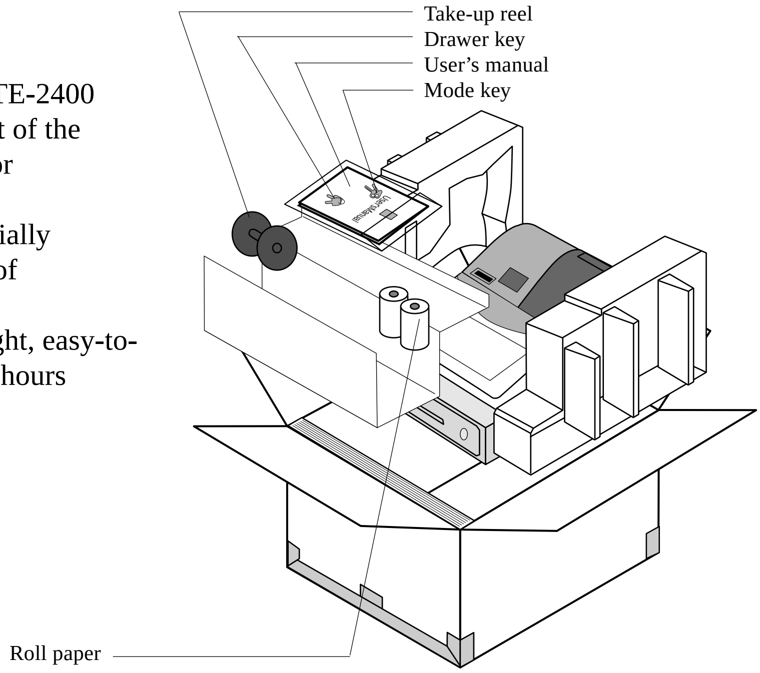
Use a soft, dry cloth to clean the exterior of the cash register. Never use benzene, thinner, or any other volatile agent.

Never try to open the cash register or attempt your own repairs. Take the cash register to your authorized CASIO dealer for repairs.



Introduction

Congratulations on your selection of a CASIO TE-2400 electronic cash register. This ECR is the product of the world's most advanced electronic technology, for outstanding versatility and reliability.
Simplified operation is made possible by a specially designed keyboard layout and a wide selection of automated, programmable functions.
A specially designed keyboard layout and a bright, easy-to-read display help to take the fatigue out of long hours operation.



The CE marking below applies the EU region.
Declarer of conformity is as follows:
Casio Europe GmbH
Bornbarch 10, 22848 Norderstedt Germany

This mark applies in EU countries only.

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Please keep all information for future reference.

Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan
Apparatet må tilkoples jordet stikkontakt
Apparaten skall anslutas till jordat uttag

The main plug on this equipment must be used to disconnect mains power.
Please ensure that the socket outlet is installed near the equipment and shall be easily accessible.

NL Batterij niet weggooien, maar inleveren als KCA.

Safety Precautions

- To use this product safely and correctly, read this manual thoroughly and operate as instructed.
  After reading this guide, keep it close at hand for easy reference.
  Please keep all informations for future reference.
- Always observe the warnings and cautions indicated on the product.

About the icons

In this guide various icons are used to highlight safe operation of this product and to prevent injury to the operator and other personnel and also to prevent damage to property and this product. The icons and definitions are given below.

⚠ Indicates that there is a risk of severe injury or death if used incorrectly.

⚠ Indicates that injury or damage may result if used incorrectly.

Icon examples

To bring attention to risks and possible damage, the following types of icons are used.

The △ symbol indicates that it includes some symbol for attracting attention (including warning). In this triangle the actual type of precautions to be taken (electric shock, in this case) is indicated.

The ⃠ symbol indicates a prohibited action. In this symbol the actual type of prohibited actions (disassembly, in this case) will be indicated.

The ● symbol indicates a restriction. In this symbol the type of actual restriction (removal of the power plug from an outlet, in this case) is indicated.

⚠ Warning!

Handling the register

Should the register malfunction, start to emit smoke or a strange odor, or otherwise behave abnormally, immediately shut down the power and unplug the AC plug from the power outlet. Continued use creates the danger of fire and electric shock.

- Contact CASIO service representative.

Do not place containers of liquids near the register and do not allow any foreign matter to get into it. Should water or other foreign matter get into the register, immediately shut down the power and unplug the AC plug from the power outlet. Continued use creates the danger of shorting, fire and electric shock.

- Contact CASIO service representative.

Should you drop the register and damage it, immediately shut down the power and unplug the AC plug from the power outlet. Continued use creates the danger of shorting, fire and electric shock.

- Attempting to repair the register yourself is extremely dangerous. Contact CASIO service representative.

⚠ Warning!

Never try to take the register apart or modify it in any way. High-voltage components inside the register create the danger of fire and electric shock.
- Contact CASIO service representative for all repair and maintenance.

Power plug and AC outlet

Use only a proper AC electric outlet (100V~240V) . Use of an outlet with a different voltage from the rating creates the danger of malfunction, fire, and electric shock. Overloading an electric outlet creates the danger of overheating and fire.

Make sure the power plug is inserted as far as it will go. Loose plugs create the danger of electric shock, overheating, and fire.
- Do not use the register if the plug is damaged. Never connect to a power outlet that is loose.

Use a dry cloth to periodically wipe off any dust built up on the prongs of the plug. Humidity can cause poor insulation and create the danger of electric shock and fire if dust stays on the prongs.

Do not allow the power cord or plug to become damaged, and never try to modify them in any way. Continued use of a damaged power cord can cause deterioration of the insulation, exposure of internal wiring, and shorting, which creates the danger of electric shock and fire.
- Contact CASIO service representative whenever the power cord or plug requires repair or maintenance.

⚠ Caution!

Do not place the register on an unstable or uneven surface. Doing so can cause the register — especially when the drawer is open — to fall, creating the danger of malfunction, fire, and electric shock.

Do not place the register in the following areas.
- Areas where the register will be subject to large amounts of humidity or dust, or directly exposed to hot or cold air.
- Areas exposed to direct sunlight, in a close motor vehicle, or any other area subject to very high temperatures.

The above conditions can cause malfunction, which creates the danger of fire.

Do not overlay bend the power cord, do not allow it to be caught between desks or other furniture, and never place heavy objects on top of the power cord. Doing so can cause shorting or breaking of the power cord, creating the danger of fire and electric shock.

Be sure to grasp the plug when unplugging the power cord from the wall outlet. Pulling on the cord can damage it, break the wiring, or cause short, creating the danger of fire and electric shock.

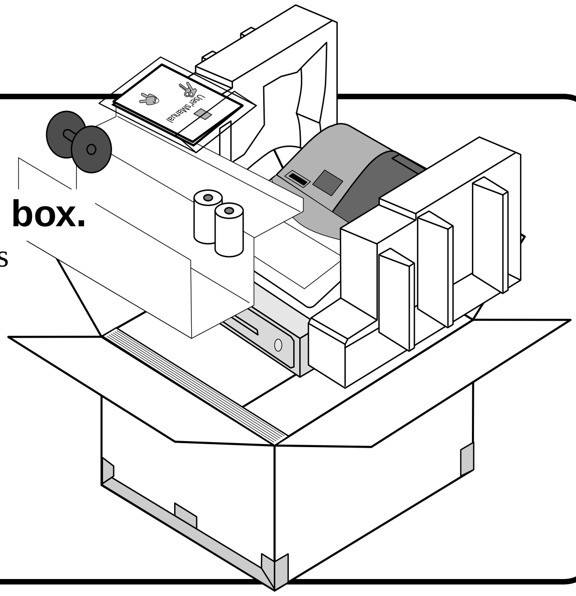
Never touch the plug while your hands are wet. Doing so creates the danger of electric shock. Pulling on the cord can damage it, break the wiring, or cause short, creating the danger of fire and electric shock.

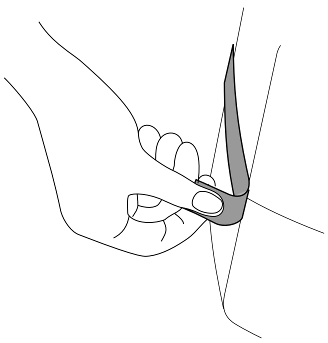
Never touch the printer head and the platen.

This section outlines how to unpack the cash register and get it ready to operate. You should read this part of the manual even if you have used a cash register before. The following is the basic set up procedure, along with page references where you should look for more details.

1. Remove the cash register from its box.

Make sure that all of the parts and accessories are included.

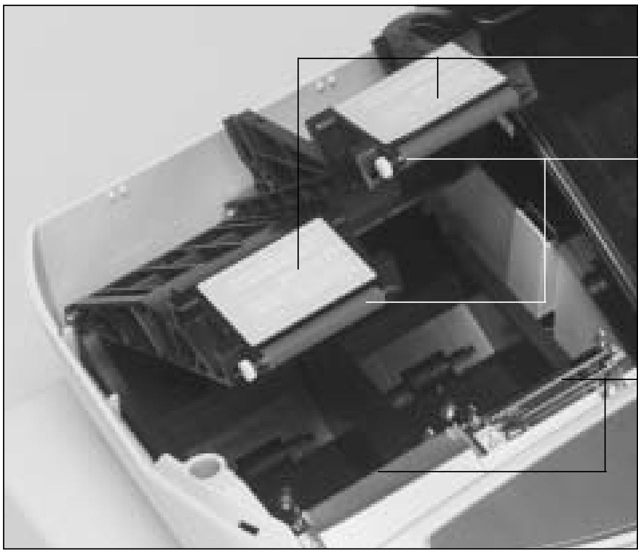




2. Remove the tape holding parts of the cash register in place.

Also remove the small plastic bag taped to the printer cover. Inside you will find the mode keys.

3. Install receipt/journal paper.



Important!

Take away the head protection sheet from the printer and close the platen arm.

Caution! (in handling the thermal paper)

- Never touch the printer head and the platen.
- Unpack the thermal paper just before your use.
- Avoid heat/direct sunlight.
- Avoid dusty and humid places for storage.
- Do not scratch the paper.
- Do not keep the printed paper under the following circumstances:
  High humidity and temperature/direct sunlight/contact with glue, thinner or a rubber eraser.

To install receipt paper



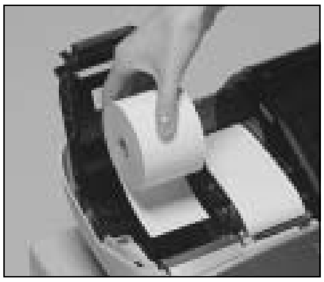
Step 1

Remove the printer cover.



Step 2

Open the platen arm.



Step 3

Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the printer.



Step 4

Put the leading end of the paper over the printer.



Step 5

Close the platen arm slowly until it locks steadily.



Complete

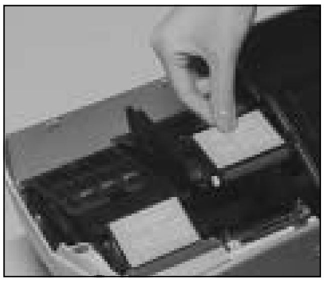
Replace the printer cover, passing the leading end of the paper through the cutter slot. Tear off the excess paper.

To install journal paper



Step 1

Remove the printer cover.



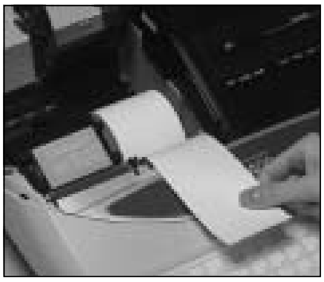
Step 2

Open the platen arm.



Step 3

Ensuring the paper is being fed from the bottom of the roll, lower the roll into the space behind the printer.



Step 4

Put the leading end of the paper over the printer.



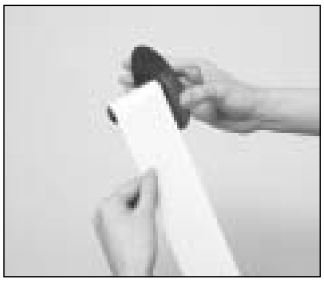
Step 5

Close the platen arm slowly until it locks steadily.



Step 6

Remove the paper guide of the take-up reel.



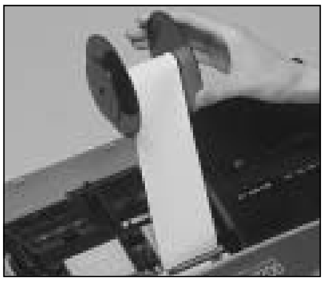
Step 7

Slide the leading end of the paper into the groove on the spindle of the take-up reel and wind it onto the reel two or three turns.



Step 8

Replace the paper guide of the take-up reel.



Step 9

Place the take-up reel into place behind the printer, above the roll paper.



Step 10

Press the [JOURNAL FEED] key to take up any slack in the paper.

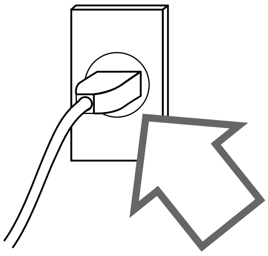
> During machine installation, press the [JOURNAL FEED] key after power on.



Complete

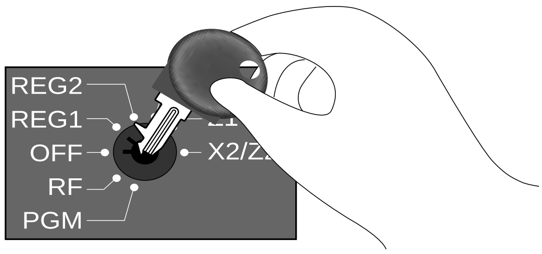
Replace the printer cover.

4. Plug the cash register into a wall outlet.



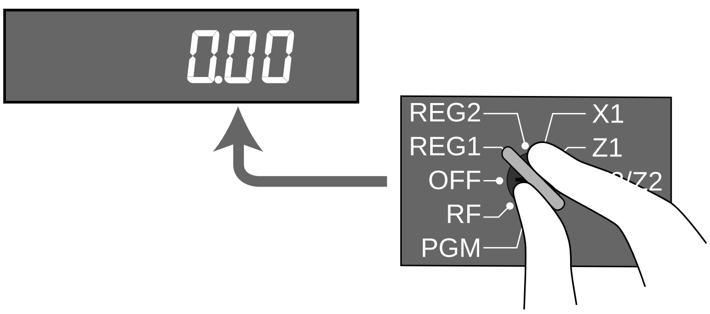
Be sure to check the sticker (rating plate) on the side of the cash register to make sure that its voltage matches that of the power supply in your area.

5. Insert the mode key marked "PGM" for U.K. or marked "OW" for other area into the mode switch.

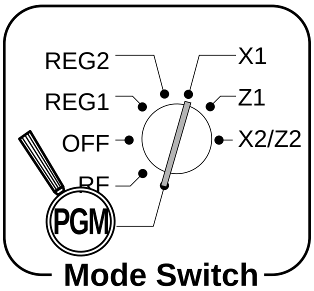


6. Turn the mode key to the "REG" position.

The display should change to the following.



7. Set the date.



→ 1 SUB TOTAL → □□□□□□ → X → C

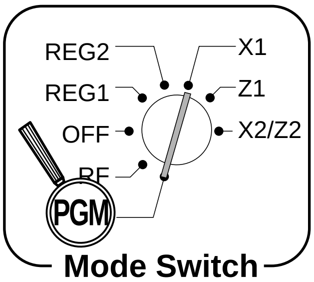
Current date

Example:

April 3, 2006 ⇨ 0 6 0 4 0 3

Year Month Day

8. Set the time.



→ 1 SUB TOTAL → □□□□ → X → C

Current time

Example:

08:20 AM ⇨ 0 8 2 0

09:45 PM ⇨ 2 1 4 5

(24-hour military time)

9. Tax table programming

This cash register is capable of automatically calculating up to 10 different sales taxes. The sales tax calculations are based on rates, so you must tell the cash register the rates, the type of tax (add-in or add-on), and the type of rounding to apply. Note that special rounding methods (page 18) are also available to meet certain local tax requirements.

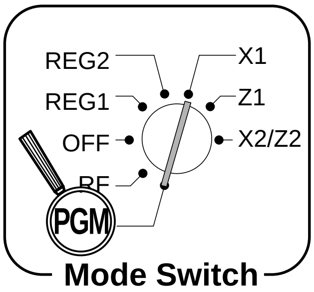
Important!

After you program the tax calculations, you also have to individually specify which departments (page 36) and PLUs (page 38) are to be taxed.

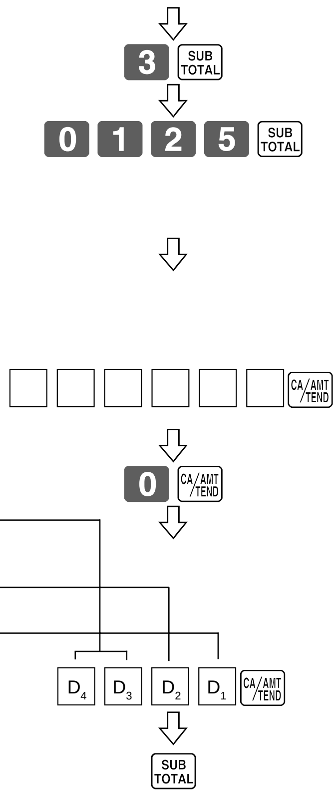
Programming tax calculations (without special rounding)

Prepare the following subjects:

1. Tax rates
2. Rounding method for tax calculation (Round up/Round off/Cut off)
3. Tax calculation system (Add-on/Add-in)



Programming procedure



Assign tax table 1. .... ➡

Assigning tax table 2, enter 0 2 2 5.
Assigning tax table 3, enter 0 3 2 5.
Assigning tax table 4, enter 0 4 2 5.

Enter tax rate (2 integers and 4 decimals)..

Example: 15% = 1 5
8.25% = 8 · 2 5
.... ➡

Enter rounding method, tax calculation method..

Fraction round up	9	0		
Fraction round off	5	0		
Fraction cut off	0	0		
Always “0”			0	
Add-on tax				2
Add-in tax				3

.... ➡

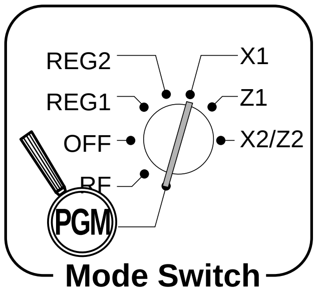
Terminate the procedure.. .... ➡

Programming tax calculations (with special rounding)

Prepare the following subjects:

1. Tax rates
2. Rounding method for tax calculation (Round up/Round off/Cut off)
3. Tax calculation system (No/Add-on/Add-in)
4. Rounding system (Special rounding 1/Special rounding 2/Special rounding 3/Danish rounding /Australian rounding) :only effective for Tax Table 1

Programming procedure



3 SUB TOTAL

Assign tax table 1. .... ➡ 0 1 2 5 SUB TOTAL

Assigning tax table 2, enter 0 2 2 5.
Assigning tax table 3, enter 0 3 2 5.
Assigning tax table 4, enter 0 4 2 5.

Enter tax rate (2 integers and 4 decimals)

Example: 15% = 1 5
8.25% = 8 · 2 5
non tax = 0

.... ➡ □□□□□□ CA/AMT TEND

Enter rounding method, tax calculation method..

0 CA/AMT TEND

Fraction round up	9	0		
Fraction round off	5	0		
Fraction cut off	0	0		
Special rounding 1 *			1	
Special rounding 2 *			2	
Special rounding 3 *			6	
Special rounding 4 *			3	
Special rounding 5 *			7	
Add-on tax				2
Add-in tax				3

* See the next page.

.... ➡ D_4 D_3 D_2 D_1 CA/AMT TEND

Terminate the procedure. .... ➡ SUB TOTAL

Getting Started

About special rounding…

Besides cut off, round off and round up, you can also specify "special rounding" for subtotals and totals or changes. Special rounding converts the right-most digit(s) of an amount to "0" or "5" to comply with the requirements of certain areas.

① Special Rounding 1

Last (right-most) digit		Rounding result	Examples:		
0 ~ 2	⇨	0	1.21	➜	1.20
3 ~ 7	⇨	5	1.26	➜	1.25
8 ~ 9	⇨	10	1.28	➜	1.30

② Special Rounding 2

Last (right-most) digit		Rounding result	Examples:		
0 ~ 4	⇨	0	1.12	➜	1.10
5 ~ 9	⇨	10	1.55	➜	1.60

③ Special Rounding 3

Last (right-most) 2 digits		Rounding result	Examples:		
00 ~ 24	⇨	0	1.24	➜	1.00
25 ~ 74	⇨	50	1.52	➜	1.50
75 ~ 99	⇨	100	1.77	➜	2.00

④ Special Rounding 4 (Danish Rounding)

With Danish rounding, the rounding method applies to subtotals depends on whether you finalize the transaction by inputting an amount tendered or not.

- When a finalization is performed without an amount tendered entry

Last (right-most) 2 digits of subtotal		Rounding result
00 ~ 12	⇨	00
13 ~ 37	⇨	25
38 ~ 62	⇨	50
63 ~ 87	⇨	75
88 ~ 99	⇨	100

- When a finalization is performed with an amount tendered entry

Last (right-most) 2 digits of change due		Rounding result
00 ~ 12	⇨	00
13 ~ 37	⇨	25
38 ~ 62	⇨	50
63 ~ 87	⇨	75
88 ~ 99	⇨	100

⑤ Special Rounding 5 (Australian Rounding)

Last (right-most) digit		Rounding result	Examples:		
0 ~ 2	⇨	0	1.21	➜	1.20
3 ~ 7	⇨	5	1.26	➜	1.25
8 ~ 9	⇨	10	1.28	➜	1.30

- Partial tenders (payments): for Danish Rounding

  No rounding is performed for the amount of tendered nor for the change amount due when the customer makes a partial tender. When a partial tender results in a remaining balance within the range of 1 through 12, the transaction is finalized as if there was no remaining balance.

- Display and printing of subtotals: for Danish and Australian Rounding

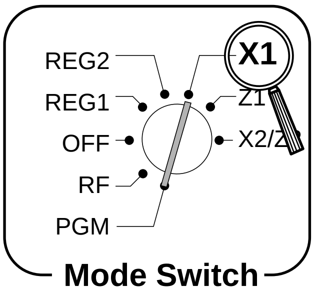
  When you press the [SUB TOTAL] key, the unrounded subtotal is printed and shown on the display. If the cash register is also set up to apply an add-on tax rate, the add-on tax amount is also included in the subtotal that is printed and displayed.

Important!

When you are using Danish rounding, you can use the [CA/AMT TEND] key to register tendered amount in which the last (right-most) digits are 00, 25, 50 or 75. This restriction does not apply to the [CH] and [CHK] keys.

10. For Australia only

You can set some programmable options to suit the Australian GST by the following procedure.



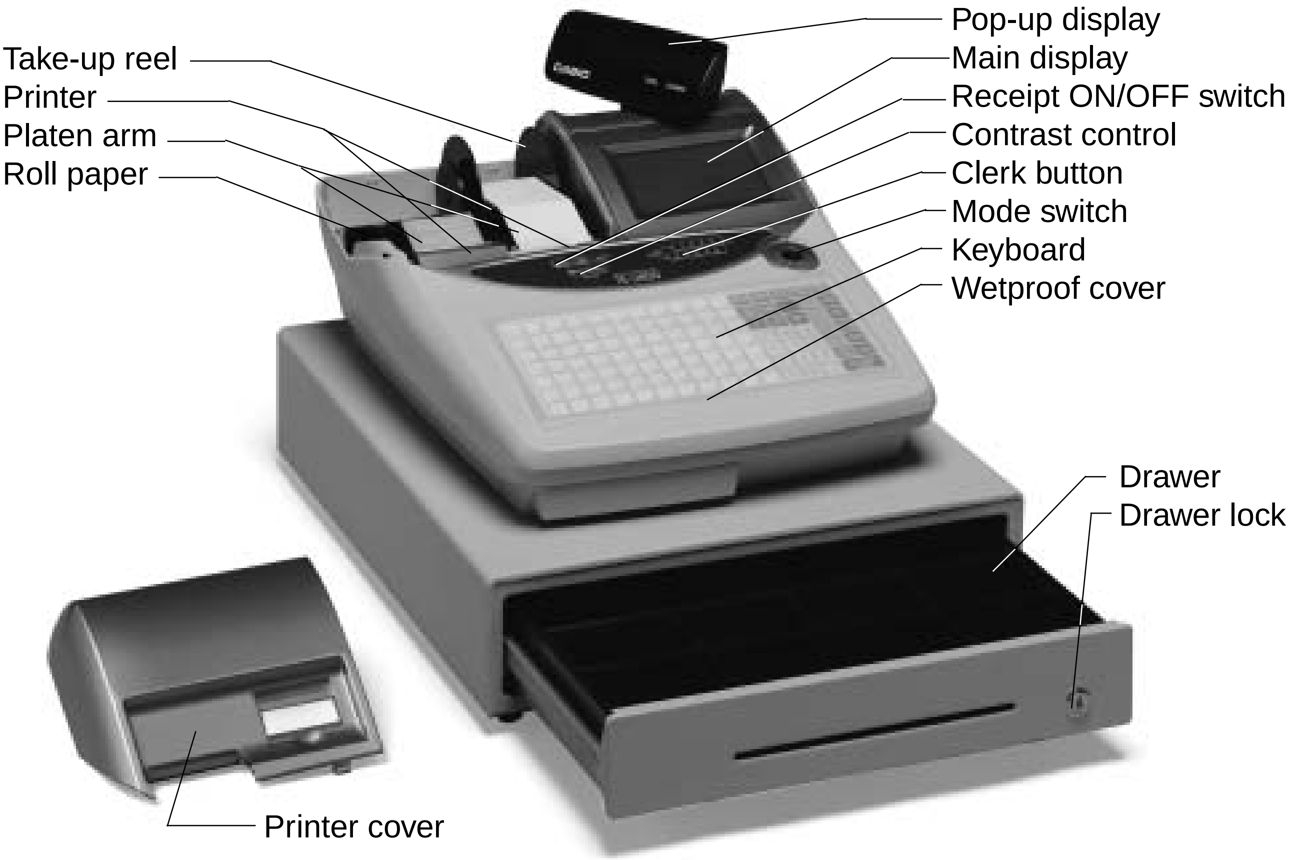
→ 0 1 0 1 2 0 0 1 SUB TOTAL → CA/AMT TEND (Execution)
→ SUB TOTAL (Cancellation)

After completion of this procedure, the “GST system was changed” message was printed on receipt and;

① Tax symbol (*) is printed.
② Taxable amount is skipped.
③ “GST INCLUDED” is set to the TX1 descriptor.
④ “TAXABLE AMT” is set to the TA1 descriptor.
⑤ Total line is printed even in direct (cash) sale.
⑥ Australian rounding is set.
⑦ “$” is set to the monetary symbol.
⑧ Print “MOF message” on receipt.
⑨ Tax (10% tax rate, add-in tax, fraction round off) is set to the tax table 1. No data is set to other tax tables.
⑩ The taxable amount and tax amount except TA1/TX1 are not printed on report.
⑪ Restriction (to 0, 5) on last amount digit of cash sales, received on account, paid out, and money declaration.

General guide

This part of the manual introduces you to the cash register and provides a general explanation of its various parts.



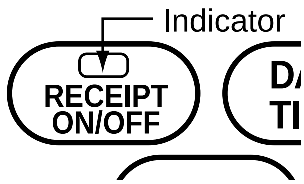
Roll paper

You can use the roll paper to print receipts and a journal (pages 12 ~ 13).

Receipt on/off switch

Use the receipt on/off switch in REG1, REG2 and RF modes to control issuance of receipts. In other modes, receipts or reports are printed regardless the receipt switch setting.
A post-finalization receipt can still be issued after finalization when the switch is set to off. The cash register can also be programmed to issue a post-finalization receipt even when the switch is set to on.

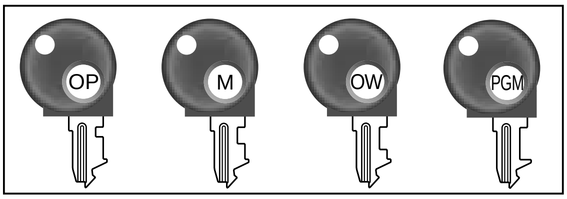
Receipt on/off switch



When the register issues receipts, this indicator is lit.

Mode key (for U.K.)

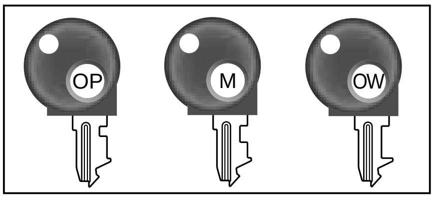
The following four types of mode keys are provided with the unit in the United Kingdom.



a. OP (Operator) key
   Switches between OFF and REG1.
b. M (Master) key
   Switches between OFF, REG1, REG2, X1 and RF.
c. OW (Owner) key
   Switches between OFF, REG1, REG2, X1, Z1, X2/Z2 and RF.
d. PGM (Program) key
   Switches to any position.

Mode key (for other area)

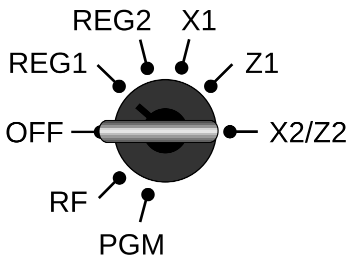
The following three types of mode keys are provided with the unit in areas outside of the United Kingdom.



a. OP (Operator) key
   Switches between OFF and REG1.
b. M (Master) key
   Switches between OFF, REG1, REG2, X1 and RF.
c. OW (Owner) key
   Switches to any position.

Mode switch

Use the mode keys to change the position of the mode switch and select the mode you want to use.



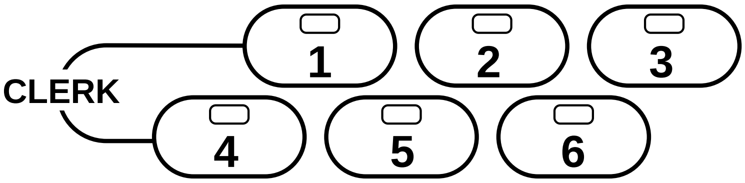
Mode switch	Mode name	Description
OFF	Stand-by	Any of the mode control keys can be inserted and removed from the mode switch in this position.
REG1	Register 1	Used for normal sales transactions. Any of the mode control keys can be inserted and removed from the mode switch in this position.
REG2	Register 2	Used for special operations. Since switching to REG2 requires a special key, such functions as discounts, credit sales, charge sales, check payments, and paid outs can be controlled by programming them as prohibited in REG1 and allowed in REG2.
RF	Refund Reg minus	Used for processing refunds. When the mode switch of the register is in RF position, you can access either the refund mode or the register minus mode.
X1	Daily sales read	Used to obtain daily reports without resetting (clearing) all total data.
Z1	Daily sales reset	Used to obtain daily reports while resetting (clearing) all total data.
X2/Z2	Periodic sale read/ reset	Used to obtain periodic sales reports without resetting total data or while resetting all total data.
PGM	Program	Used when programming functions and preset data such as unit prices and tax rates. Also used when reading program data.

Clerk key/button

You can assign clerks or cashiers by using clerk button or by clerk secret number. The method you are assigning clerk depends on the programming of your cash register.

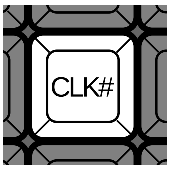
Clerk button

You can assign the clerk or cashier using the six buttons located below the display panel.



Clerk secret number key

When the cash register is programmed to use clerk secret numbers for clerk or cashier assignment, the clerk buttons are not functional.



Drawer

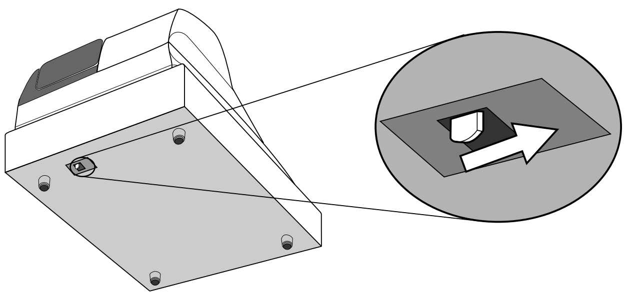
The drawer opens automatically whenever you finalize a registration and whenever you issue a read or reset report.

Drawer lock

Use the drawer key to lock and unlock the drawer.

When the cash drawer does not open!

In case of power failure or the machine is in malfunction, the cash drawer does not open automatically. Even in these cases, you can open the cash drawer by pulling drawer release lever (see below).



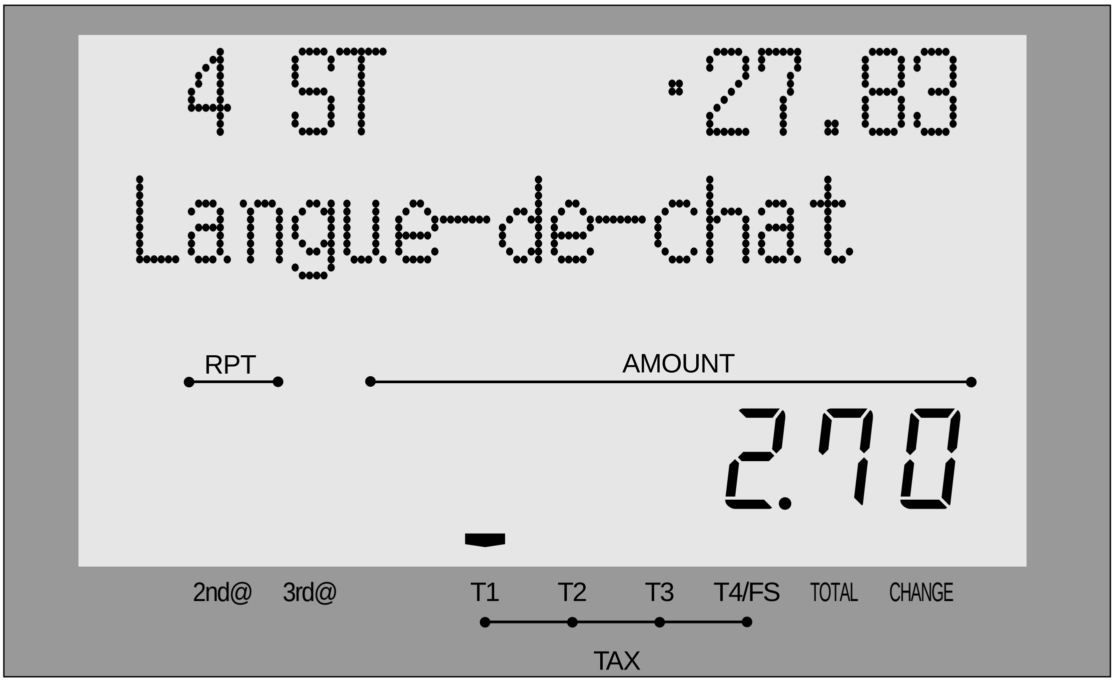
Important!

The drawer will not open, if it is locked with a drawer lock key.

Display

Display panel

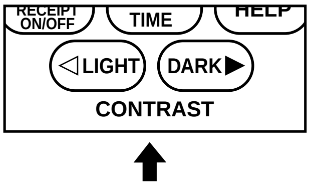
Main display



Customer display

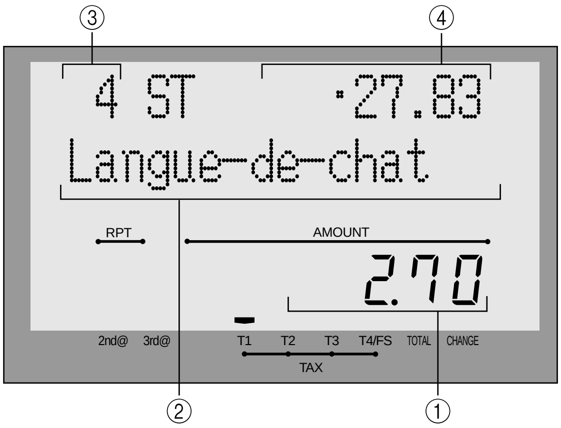


Contrast control

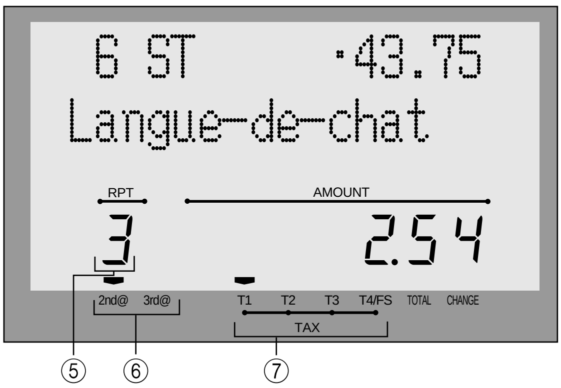


Display example

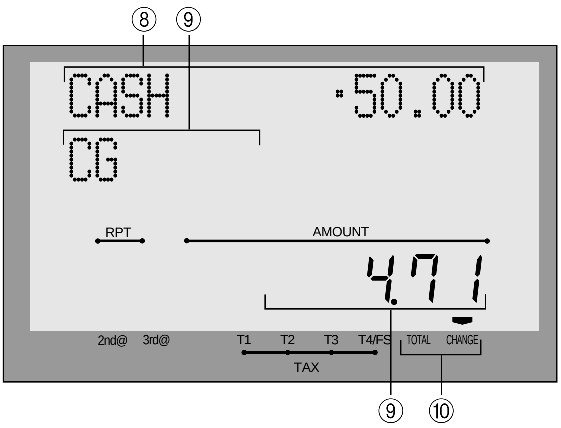
Item registration



Repeat registration



Totalize operation



① **Amount/Quantity**
This part of the display shows monetary amounts. It also can be used to show the current time.

② **Item descriptor**
When you register a department/PLU/scanning PLU, the item descriptor appears here.

③ **Item counter**
Number of item sold is displayed.

④ **Subtotal amount**
Current subtotal amount (add-on tax excluded) is displayed.

⑤ **Number of repeats**
Anytime you perform a repeat registration (pages 34, 39), the number of repeats appears here.
Note that only one digit is displayed for the number of repeats. This means that a “5” could mean 5, 15 or even 25 repeats.

⑥ **2nd, 3rd menu indicator**
When you press [PRICE SHIFT] to designate the 2nd/3rd unit price, the corresponding number is displayed.

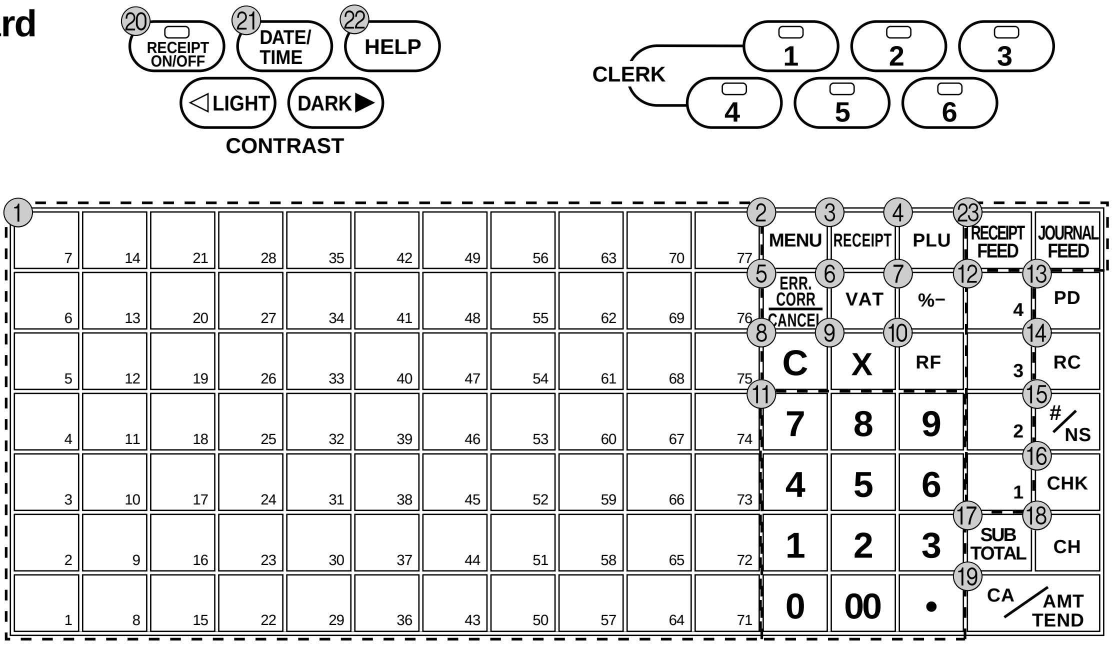
⑦ **Taxable sales status indicators**
When you register a taxable item, the corresponding indicator is lit.

⑧ **Amount tendered key descriptor/amount**

⑨ **Change descriptor/amount**

⑩ **Total/Change indicators**
When the TOTAL indicator is lit, the displayed value is monetary total or subtotal amount. When the CHANGE indicator is lit, the displayed value is the change due.

Keyboard



• Register Mode

① **Flat PLU key** [001], [002], ~
Use these keys to register items to flat PLUs.

② **Menu shift key** [MENU SHIFT]
Use this key to shift key to the 1st ~ 6th menu.

③ **Post receipt key** [RECEIPT]
Press this key to produce a post-finalization receipt.

④ **PLU key** [PLU]
Use this key to input PLU numbers.

⑤ **Error correction/Cancellation key** [ERR.CORR. CANCEL]
Use this key to correct registration errors and to cancel registration of entire transactions.

⑥ **VAT key** [VAT]
Use this key to print a VAT breakdown.

⑦ **Discount key** [%−]
Use this key to register discounts.

⑧ **Clear key** [C]
Use this key to clear an entry that has not yet been registered.

⑨ **Multiplication key** [X]
Use this key to input a quantity for a multiplication operation.

⑩ **Refund key** [RF]
Use this key to input refund amounts and void certain entries.

⑪ **Ten key pad** [0], [1] ~ [9], [00], [·]
Use these keys to input numbers.

⑫ **Department keys** [1], [2], [3] ~ [4]
Use these keys to register items to departments.

⑬ **Paid out key** [PD]
Use this key following a numeric entry to register money paid out from the drawer.
Use this key to convert the main currency to the sub currency (the euro/the local money), when registering a subtotal amount. This key is also used for specifying sub currency while entering an amount of payment or declaration in drawers.

⑭ **Received on account key** [RC]
Use this key following a numeric entry to register money received for non-sale transactions.

⑮ **Non-add/No sale key** [#/NS]
Non-add key: To print reference number (to identify a personal check, credit card, etc.) during a transaction, use this key after some numerical entries.
No sale key: Use this key to open the drawer without registering anything.

⑯ **Check key** [CHK]
Use this key to register a check tender.

⑰ **Subtotal key** [SUB TOTAL]
Use this key to display and print the current subtotal (includes add-on tax) amount.

⑱ **Charge key** [CH]
Use this key to register a charge sale.

⑲ **Cash/Amount tendered key** [CA/AMT TEND]
Use this key to register a cash tender.

⑳ **Receipt on/off key** RECEIPT ON/OFF

Use this key twice to change the status “receipt issue” or “no receipt.” In case of “receipt issue”, the indicator is lit.

㉑ **Date/Time key** DATE/ TIME

Between transactions, this key displays the current time and date.

㉒ **Help key** HELP

Use this key to look up the procedures to set date/time, tax table etc.

㉓ **Paper feed key** RECEIPT FEED, JOURNAL FEED

Hold this key down to feed paper from the printer.

Allocatable functions

You can tailor a keyboard to suit your particular type of business.

Add check
Use this key in a check tracking system to combine the details of more than one check into a single check.

Arrangement
Use this key to activate an arrangement program programmed in the arrangement file. Any operation that can be performed from the keyboard, as well as mode, can be programmed in an arrangement program, and can be performed merely by pressing this key. In addition, one numeric entry can be included in an arrangement program. In this case, input the number and press this key.
The mode control function of this key can be programmed for all modes except for the OFF and PGM mode.

Bill copy
Use this key to issue bill copy.

Bottle return
Use this key to specify next item as bottle return.

Cancel
Invalidates all preceding data registered for departments, PLUs and set menus within a transaction. This key must be pressed before the transaction involving the data to be invalidated is finalized. It is also effective even after calculation of subtotal amount.

Check endorsement
Use this key to print a preset check endorsement message using the slip printer.

Check print
Use this key to print the check on the slip printer.

Clerk number
Use this key to sign clerk on and off the register.

Clock-in/-out
Use this key to register the time when the employees start/ finish their job.

Coupon
Use this key for registering coupons.

Coupon 2
Use this key to declare the next item registration as coupon.

Credit
Use this key to register a credit sale.

Cube
This key provides the same functions as the Square key. In addition, this key also has a cube multiplication function.

Currency exchange
Use this key to convert foreign currency to local currency or vice versa using the exchange rate preset for the key and displays the result.
Use this key for conversions of a home currency subtotal or merchandise subtotal to equivalent of another country's currency.
Use this key for conversions of another country's currency to the equivalent of the home currency.

Customer number
Use this key to register the number of customers.

Declaration
Use this key to declare in drawer amount for money declaration.

Deposit
Use this key to register deposits.

Eat-in
Use this key to specify if the customer eats in the restaurant. Before closing a transaction press this key.

Loan
This key is used to input the amount of money provided for making change. This operation affects media totals, rather than sales totals. Loans are made for all types of money which can be specified by the finalize key.

Manual tax
Use this key to register a tax amount.

Media change
Use this key to change media in drawer amount. Pressing this key enters media change operation.

Merchandise subtotal
Use this key to obtain subtotal excluding the add-on tax amount and the previous balance.

Minus
Use this key to input values for subtraction.

Multiplication/For
Use this key to input a quantity for a multiplication operation and registration of split sales of packaged items. Between transactions, this key displays the current time and date.

New balance
Use this key for adding the latest registered total amount to the previous balance to obtain a new balance.

New check
Use this key in a check tracking system to input a new check number in order to open a new check under that number.

New/Old check
Use this key in a check tracking system to input check numbers in order to open new checks and to reopen existing checks. When the clerk inputs a check number, the register checks to see if that number already exists in the check tracking memory. If there is no matching number in the memory, a new check is opened under the input number. If the check number input matches a number already stored in the memory, that check is reopened for further registration or finalization.

No sale
Use this key to open the drawer between transaction.

Non add
Use this key to print reference numbers (personal check number, card number, etc.)

OBR (Optical barcode reader)
Use this key to input optical barcodes manually.

Old check
Use this key in a check tracking system to input the number of an existing check (previously created by the New check key) whose details are stored in the check tracking memory. Existing checks are reopened to perform further registration or to finalize them.

One touch NLU
Use this key to register scanning PLU directly from the keyboard. There is one One touch NLU key for one scanning PLU, and multiple one touch NLU keys can be set on the keyboard.

Open
Use this key to temporarily release a limitation on the number of digits that can be input for a unit price.

Open 2
Use this key to suspend the compulsory specifications.

Open check
Use this key to issue an open check report of an assigned clerk.

Operator number
Use this key to enter a clerk number during clerk transfer.

Operator X/Z
Use this key to issue a clerk's individual X/Z report.

Pick up
When the amount in drawer exceeds the limit value (sentinel function), the manager performs a pick up operation. This key is used for this function. This operation affects media totals, rather than sales totals. Pick ups are made for all types of money which can be specified by the finalize key.

Plus
Use this key for registering surcharge.

Premium
Use this key to apply a preset % or manual input % to obtain the premium amount for the last registered item or subtotal.

Previous balance
Use this key to register the previous negative/positive balance at the beginning of or during a transaction.

Previous balance subtotal
Use this key to obtain subtotal excluding the add-on tax amount and current balance.

Price
Use this key to register an open PLU.

Price change
Use this key to change scanning PLU unit price temporarily.

Price inquiry
Use this key to confirm the price and descriptors of PLU without registering.

Price shift
Use this key to shift a scanning PLU to the 1st ~ 3rd unit price.

Rate tax
Use this key to activate the preset tax rate or manually input rate to obtain the tax for the preceding taxable status 1 amount.

Recall
Use this key for recalling the transferred check number by the store key. When this key is pressed, the check number will appear in order of the oldest record.

Red price
Use this key to register a new (discounted) price of an item.

Review
Use this key to examine the current transaction by displaying item descriptor and registered amount. This key is also used for void operation or separate check operation.

Separate check
Use this key in a check tracking system to separate selected items from one check to another check.

Slip feed/release
Use this key to feed slips inserted into the slip printer. This is done by specifying the number of feed lines. This key is also used to release the slip paper holder if numbers are not entered.

Slip back feed/release
Use this key to back feed slips inserted into the slip printer. This is done by specifying the number of feed lines. This key is also used to release the slip paper holder if numbers are not entered.

Slip print
Use this key to execute a slip batch printing on the slip printer. Pressing this key prints the sales details. Actual printing is performed following receipt issuance.

Square
This key provides the same functions as the Multiplication key. In addition, this key also has a square multiplication function.

Stock inquiry
Use this key to check the current stock quantity for a PLU without registering.

Store
Use this key for storing the check number of the registered items. When this key is pressed, registered item data will be stored, and then these data will transfer to the youngest check number.

Table number
Use this key to input table numbers.

Takeout
Use this key to specify if the customer takes out items. Before total a transaction. Press this key for the tax exemption.

Tax exempt
Use this key to change taxable amounts to nontaxable amounts.

Tax status shift 1
Use this key to change the Taxable 1 status of the next item.

Tax status shift 2
Use this key to change the Taxable 2 status of the next item.

Taxable amount subtotal
Use this key to obtain taxable amount subtotal.

Text print
Use this key to enter characters to print.

Text recall
Use this key to print preset characters.

Tip
Use this key to register tips.

Tray total
Use this key to display the total amount for all registrations from the last registration until this key is pressed or registrations between presses of this key.

Validation
Use this key to validate transaction amounts on slip.

Void
Use this key to invalidate preceding item data registered.

How to read the printouts

- The journal and receipts are records of all transactions and operations.
- The contents printed on receipts and journal are almost identical.
- You can choose the journal skip function.
  If the journal skip function is selected, the cash register will print the total amount of each transaction, and the details of premium, discount and reduction operations only, without printing department and PLU item registrations on the journal.
- The following items can be skipped on receipts and journal.
  - Consecutive number
  - Taxable status
  - Taxable amount
  - Item counter

Receipt Sample

```
************************
     * THANK YOU *
**    CALL AGAIN     **
************************

*  COMMERCIAL MESSAGE  *
*  COMMERCIAL MESSAGE  *
*  COMMERCIAL MESSAGE  *
*  COMMERCIAL MESSAGE  *

REG  03-06-2006 11:58
C01     MC#01    000123

 1 DEPT01    T1    •1.00
 1 DEPT02    T1    •2.00
 5 DEPT03          •5.00
            7 No
   TA1             •3.00
   TX1             •0.15
   TL             •8.15
   CASH           •10.00
   CG              •1.85

***  BOTTOM MESSAGE  ***
***  BOTTOM MESSAGE  ***
***  BOTTOM MESSAGE  ***
***  BOTTOM MESSAGE  ***
```

- Logo message
- Commercial message
- Mode/Date/Time
- Clerk/Machine No.
- Consecutive No.
- Q'ty/Item
- Item counter
- Bottom message

Journal Sample (Item lines Included)

```
REG  03-06-2006 11:58
C01     MC#01    000123
 1 DEPT01    T1    •1.00
 1 DEPT02    T1    •2.00
 5 DEPT03          •5.00
            7 No
   TA1             •3.00
   TX1             •0.15
   TL             •8.15
   CASH           •10.00
   CG              •1.85
REG  03-06-2006 11:59
C01     MC#01    000124
 1 DEPT01    T1    •1.00
 1 DEPT12    T1    •1.00
 5 DEPT03          •6.00
            7 No
   TA1             •2.00
   TX1             •0.10
   TL             •8.10
   CASH           •10.00
   CG              •1.90
REG  03-06-2006 11:59
C01     MC#01    000124
```

Journal Sample (by half height character)

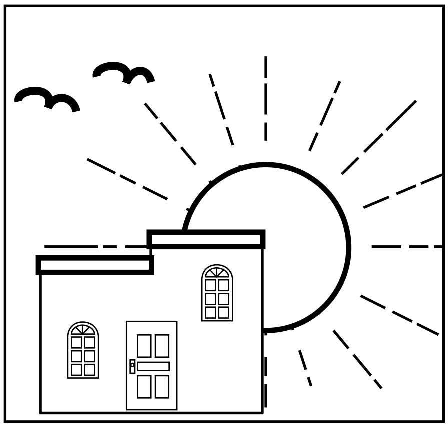
```
REG  03-06-2006 11:58
C 01     MC#01
 1 DEPT01    T1    •1.00
 1 DEPT02    T1    •2.00
 5 DEPT03          •5.00
            7 No
   TA1             •3.00
   TX1             •0.15
   TL             •8.15
   CASH           •10.00
   CG              •1.85
REG  03-06-2006 11:59
C 01     MC#01    000124
 1 DEPT01    T1    •1.00
 1 DEPT12    T1    •1.00
 5 DEPT03          •6.00
            7 No
   TA1             •2.00
   TX1             •0.10
   TL             •8.10
   CASH           •10.00
   CG              •1.90
REG  03-06-2006 11:59
C 01     MC#01    000125
```

In the operation examples contained in this manual, the print samples are what would be produced if the roll paper is being used for receipts. They are not actual size. Actual receipts are 58 mm wide. Also, all sample receipts and journals are printout images.

How to use your cash register

The following describes the general procedure you should use in order to get the most out of your cash register.

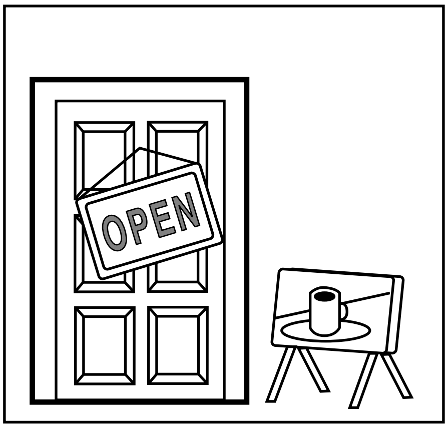
BEFORE business hours…



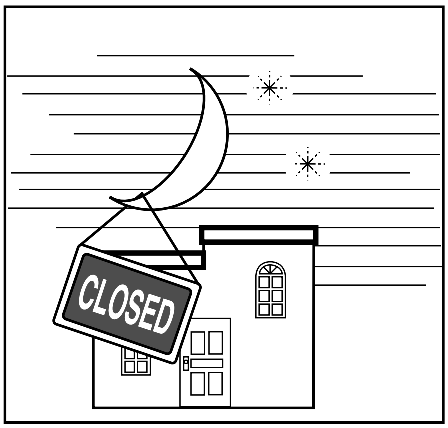
- Check to make sure that the cash register is plugged in securely. Page 14
- Check to make sure there is enough paper left on the roll. Pages 12, 13
- Read the financial totals to confirm that they are all zero. Page 93
- Check the date and time. Page 33

DURING business hours…

- Register transactions. Page 34
- Periodically read totals. Page 92



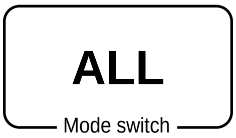
AFTER business hours…



- Reset the daily totals. Page 52
- Remove the journal. Page 108
- Empty the cash drawer and leave it open. Page 23
- Take the cash and journal to the office.

Basic Operations and Setups

Assigning a clerk



You can assign clerks by using clerk button or by clerk secret number.
The method you of assigning clerk depends on the programming of your cash register.

Clerk button

You can assign the clerk or cashier using the six buttons located below the display panel.

Clerk secret number key

When the cash register is programmed to use clerk secret numbers for clerk or cashier assignment, the clerk buttons are not functional.

Clerk sign on

OPERATION **RECEIPT**

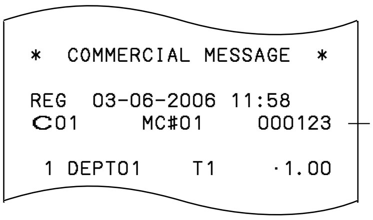
Signing clerk 1 on: 1 → CLK#

Signing clerk 2 on: 2 → CLK#

·
·
·

Signing clerk 15 on: 1 5 → CLK#

Clerk secret number
(1 ~ 15 is set as default.)



Clerk name/machine No./consecutive No.

- If you do not want the clerk secret number to be shown on the display, press CLK# before entering the number.

Clerk sign off

OPERATION

Signing clerk off: 0 → CLK#
(except PGM mode)

- The current clerk is also signed off whenever you set the mode switch to OFF position.

Important!

- The error code “E008” appears on the display whenever you try to perform a registration, a read/reset operation without signing on.
- A clerk cannot sign on unless other clerk is signed off.
- The signed on clerk is also identified on the receipt/journal.

Displaying the time and date

REG
Mode switch

You can show the time or date on the display of the cash register whenever there is no registration being made.

To display and clear the date/time

OPERATION	DISPLAY
[DATE/TIME] Date/time appears on the display.	03-04-2006 08-30
[C] Clears the date/time display.	REG C01 0.00

Preparing coins for change

REG
Mode switch

You can use the following procedure to open the drawer without registering an item. This operation must be performed out of a sale.
(You can use the [RC] key instead of the [#/NS] key. See page 48.)

Opening the drawer without a sale

OPERATION	RECEIPT
[#/NS]	#/NS ·········

Preparing and using department/flat-PLU keys

Registering department/flat-PLU keys

REG
Mode switch

The following examples show how you can use the department/flat-PLU keys in various types of registrations.

Single item sale

Example 1

OPERATION / RECEIPT

Item	Unit price	$1.00
	Quantity	1
	Dept.	1
Payment	Cash	$1.00

Operation:

1 00 — Unit price
1 — Department
CA/AMT TEND

Receipt:

```
1 DEPT01        •1.00   — Department No./unit price
  TL          •1.00     — Total amount
  CASH          •1.00
```

Example 2 (Subtotal registration and change computation)

OPERATION / RECEIPT

Item	Unit price	$12.34
	Quantity	1
	Flat-PLU	1
Payment	Cash	$20.00

Operation:

1 2 3 4 — Unit price
001 — Flat-PLU
SUB TOTAL
2 0 00 CA/AMT TEND — Amount tendered

Receipt:

```
1 PLU001       •12.34
  TL         •12.34     — Total amount
  CASH         •20.00   — Amount tendered
  CG            •7.66   — Change
```

Repeat

OPERATION / RECEIPT

Item	Unit price	$1.50
	Quantity	3
	Dept.	1
Payment	Cash	$10.00

Operation:

1 5 0 1
1
1
SUB TOTAL
1 0 00 CA/AMT TEND

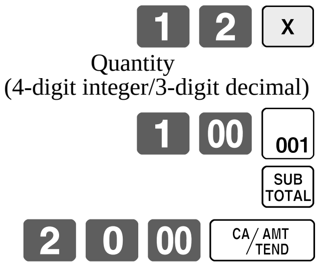
Receipt:

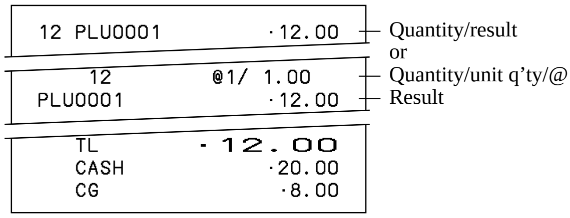
```
1 DEPT01        •1.50
1 DEPT01        •1.50   — Repeat
1 DEPT01        •1.50   — Repeat
  TL          •4.50
  CASH         •10.00
  CG            •5.50
```

Multiplication

OPERATION **RECEIPT**

Item	Unit price	$1.00
	Quantity	12
	Flat-PLU	1
Payment	Cash	$20.00

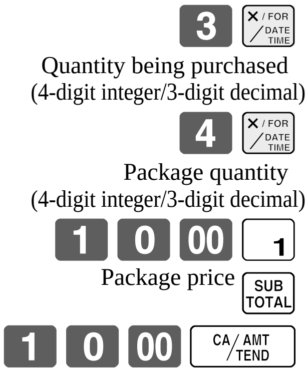


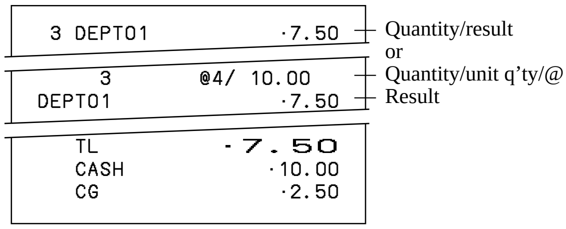


Split sales of packaged items

OPERATION **RECEIPT**

Item	Unit price	4 for $10.00
	Quantity	3
	Dept.	1
	Taxable	No
Payment	Cash	$10.00

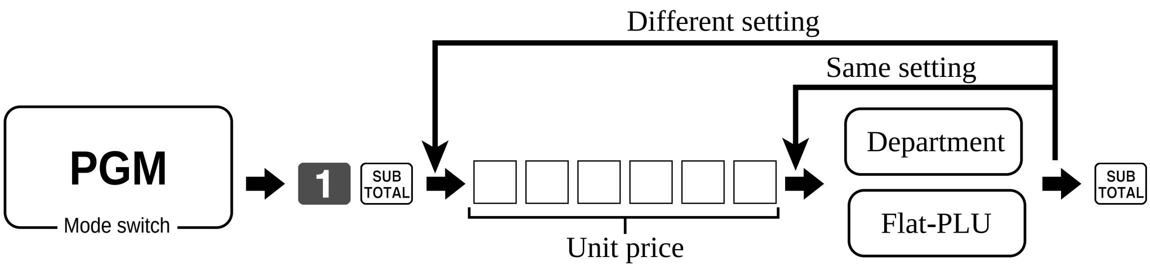




- If ×/FOR DATE TIME is not allocated on the keyboard, key allocation is necessary.

Programming department/flat-PLU keys

To program a unit price for each department/flat-PLU



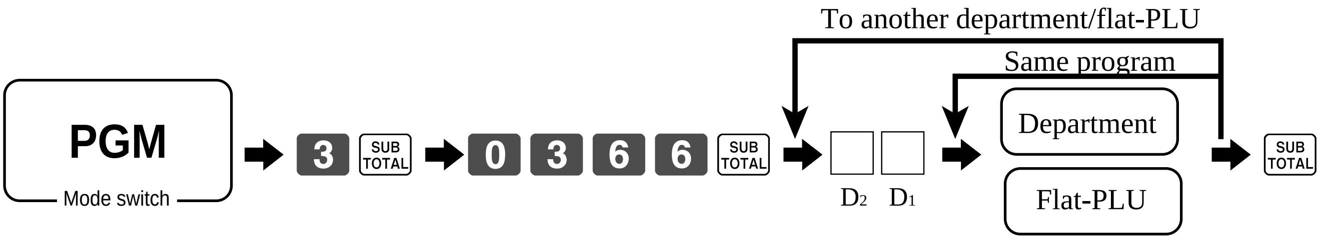
To program the tax calculation status for each department/flat-PLU

Tax calculation status

This specification defines which tax table should be used for automatic tax calculation.

Basic Operations and Setups

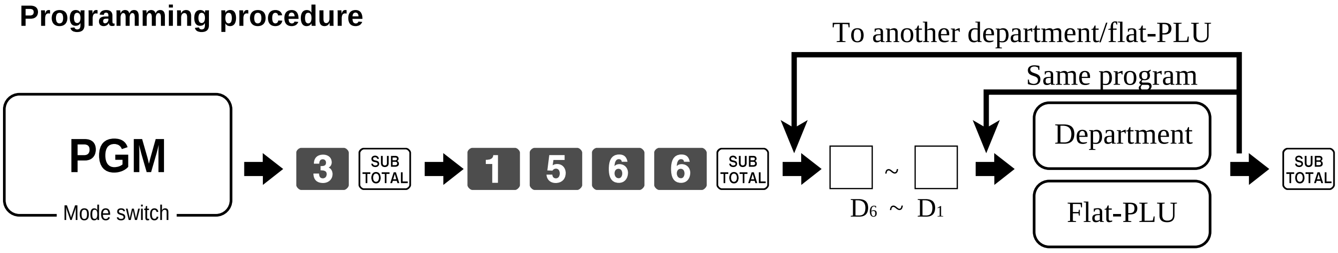
Programming procedure



Description		Choice	Program code
for Singapore			
Always “0”			0 D_2
Taxable 1 status	a	Yes = 1 No = 0	a+b+c □ D_1
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	
for other area			
Non tax = 0 Taxable 1 = 1 Taxable 2 = 2 Taxable 3 = 3 Taxable 4 = 4 Taxable 5 = 5 Taxable 6 = 6 Taxable 7 = 7 Taxable 8 = 8 Taxable 9 = 9 Taxable 10 = 10		Significant numbers	□□ $D_2 D_1$

To program high amount limit for each department/flat-PLU

Programming procedure



Description	Choice	Program code
High amount limit for entering unit price manually.	Significant numbers	□ ~ □ D_6 ~ D_1

Registering department/flat-PLU keys by programming data

REG
Mode switch

Preset price

Item	Unit price	($1.00)preset
	Quantity	1
	Dept.	2
Payment	Cash	$1.00

OPERATION

2
CA/AMT TEND

RECEIPT

```
 1 DEPT02        •1.00   — Department No./unit price
   TL          •1.00
   CASH          •1.00
```

Preset tax status

Item 1	Unit price	($2.00)preset
	Quantity	5
	Dept.	3
	Taxable	(1)preset
Item 2	Unit price	($2.00)preset
	Quantity	1
	Dept.	4
	Taxable	(2)preset
Payment	Cash	$20.00

OPERATION

5 X
3
4
SUB TOTAL
2 0 00 CA/AMT TEND

RECEIPT

```
                  Tax status
 5 DEPT03    T1   •10.00
 1 DEPT04    T2    •2.00
   TA1            •10.00  — Taxable Amount 1
   TX1             •0.40  — Tax 1
   TA2             •2.00  — Taxable Amount 2
   TX2             •0.20  — Tax 2
   TL            •12.60
   CASH           •20.00
   CG              •7.40
```

Locking out high amount limitation

Item	Unit price	$1.05
	Quantity	1
	Dept.	3
	Max.amount	($10.00)preset
Payment	Cash	$2.00

OPERATION

1 0 5 0 3
ERROR ALARM
(Exceeding high amount)
C
1 0 5 3
SUB TOTAL
2 00 CA/AMT TEND

RECEIPT

```
 1 DEPT03          •1.05
   TL            •1.05
   CASH            •2.00
   CG              •0.95
```

Preparing and using PLUs

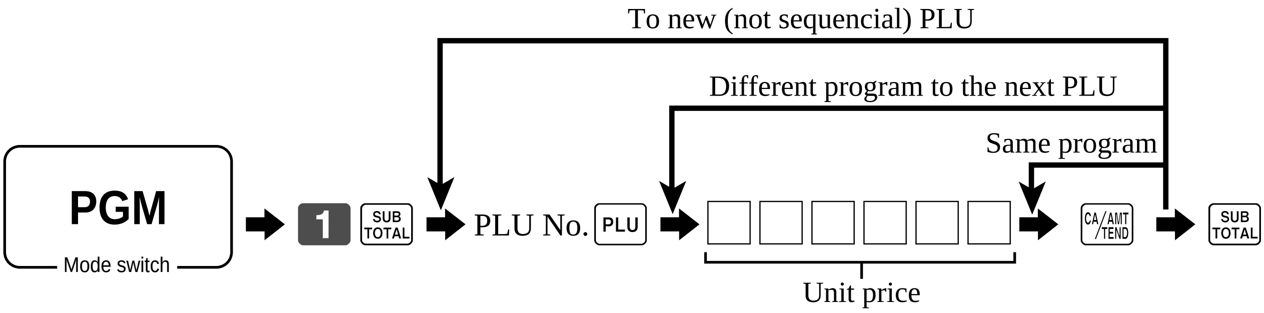
This section describes how to prepare and use PLUs.

CAUTION:

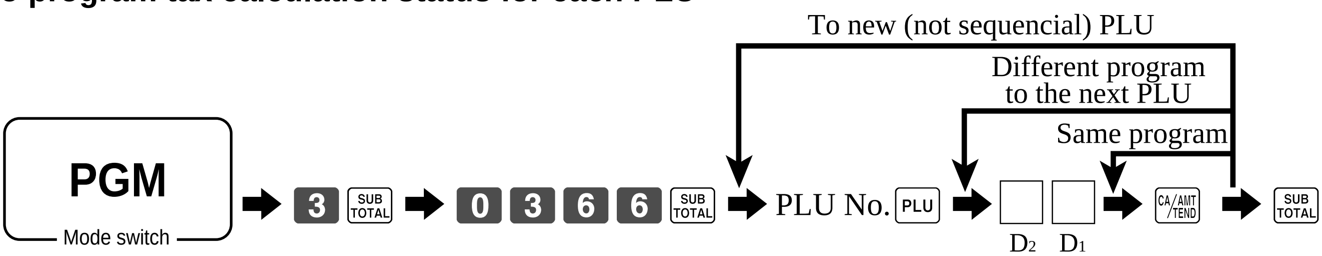
Before you use PLUs, you must first program the unit price and tax status.

Programming PLUs

To program a unit price for each PLU



To program tax calculation status for each PLU



Description		Choice	Program code

for Singapore

Description		Choice	Program code
Always “0”			0 D_2
Taxable 1 status	a	Yes = 1 No = 0	a+b+c D_1
Taxable 2 status	b	Yes = 2 No = 0	
Taxable 3 status	c	Yes = 4 No = 0	

for other area

Description	Choice	Program code
Non tax = 0 Taxable 1 = 1 Taxable 2 = 2 Taxable 3 = 3 Taxable 4 = 4 Taxable 5 = 5 Taxable 6 = 6 Taxable 7 = 7 Taxable 8 = 8 Taxable 9 = 9 Taxable 10 = 10	Significant numbers	$D_2 D_1$

Registering PLUs

REG
Mode switch

The following examples show how you can use PLUs in various types of registrations.

PLU single item sale

Item	Unit price	($2.50)preset
	Quantity	1
	PLU	14
Payment	Cash	$3.00

OPERATION

1 4 (PLU code)
PLU
SUB TOTAL
3 00 CA/AMT TEND

RECEIPT

```
1 PLU0014          •2.50   — PLU No./unit price
  TL               •2.50
  CASH             •3.00
  CG               •0.50
```

PLU repeat

Item	Unit price	($2.50)preset
	Quantity	3
	PLU	14
Payment	Cash	$10.00

OPERATION

1 4 PLU
PLU
PLU
SUB TOTAL
1 0 00 CA/AMT TEND

RECEIPT

```
1 PLU0014          •2.50
1 PLU0014          •2.50
1 PLU0014          •2.50
  TL               •7.50
  CASH            •10.00
  CG               •2.50
```

PLU multiplication

Item	Unit price	($2.00)preset
	Quantity	10
	PLU	7
Payment	Cash	$20.00

OPERATION

1 0 X
Quantity
(4-digit integer/3-digit decimal)
7 PLU
SUB TOTAL
2 0 00 CA/AMT TEND

RECEIPT

```
10 PLU0007        •20.00   — Quantity/result
                             or
  10         @1/ 2.00      — Quantity/unit q'ty/@
  PLU0007         •20.00   — Result

  TL              •20.00
  CASH            •20.00
  CG               •0.00
```

Basic Operations and Setups

Split sales of packaged item

Item	Unit price	(5for$20.00) preset
	Quantity	3
	PLU	28
Payment	Cash	$15.00

OPERATION

3 [X/FOR DATE TIME]
Quantity being purchased
(4-digit integer/3-digit decimal)

5 [X/FOR DATE TIME]
Package quantity
(4-digit integer/3-digit decimal)

2 8 [PLU]

[SUB TOTAL]

1 5 00 [CA/AMT TEND]

RECEIPT

```
  3 PLU0028         ·12.00   — Quantity/result
                               or
    3        @5/ 20.00       — Quantity/unit q'ty/@
  PLU0028           ·12.00   — Result
   TL          ·12.00
   CASH             ·15.00
   CG                ·3.00
```

• If [X/FOR DATE TIME] is not allocated on the keyboard, key allocation is necessary.

Open PLU

Item 1	Unit price	$32.80
	Quantity	1
	PLU	30
Item 2	Unit price	$13.00
	Quantity	2
	PLU	31
Payment	Cash	$60.00

OPERATION

3 0 [PLU]

3 2 8 0 [PRICE]
Unit price

3 1 [PLU]

1 3 00 [PRICE]

Repeat [PRICE]

[SUB TOTAL]

6 0 00 [CA/AMT TEND]

RECEIPT

```
 1 PLU0030          ·32.80
 1 PLU0031          ·13.00
 1 PLU0031          ·13.00
   TL          ·58.80
   CASH             ·60.00
   CG                ·1.20
```

• Before registering an open PLU, it is necessary to preset it as an open PLU.

Preparing and using discounts

This section describes how to prepare and register discounts.

Programming discounts

To program a rate to the [%–] key

PGM (Mode switch) → [1] [SUB TOTAL] → [□□□□] (Preset rate) → [%–] → [SUB TOTAL]

Example:

10% ⇨ [1] [0]

5.5% ⇨ [5] [·] [5]

12.34% ⇨ [1] [2] [·] [3] [4]

Registering discounts

REG (Mode switch)

The following example shows how you can use the [%–] key in various types of registration.

Discount for items and subtotals

Item 1	Dept. 1	$5.00
	Quantity	1
	Taxable	(1) preset
Item 2	PLU 16	($10.00) preset
	Quantity	1
	Taxable	(2) preset
Discount	Rate	(5%) preset
Subtotal discount	Rate	3.5%
	Taxable	Nontaxable
Payment	Cash	$15.00

OPERATION

[5] [00] [1]

[1] [6] [PLU]

[%–]

Applies the preset discount rate to the last item registered.

[SUB TOTAL]

[3] [·] [5] [%–]

The input value takes priority of the preset value.

[SUB TOTAL]

[1] [5] [00] [CA/AMT TEND]

RECEIPT

```
1 DEPT01     T1    ·5.00
1 PLU0016    T2   ·10.00
  5%
 %-          T2    -0.50
 ST               ·14.50
  3.5%
 %-                -0.51
 TA1               ·5.00
 TX1               ·0.20
 TA2               ·9.50
 TX2               ·0.48
 TL              ·14.67
 CASH             ·15.00
 CG                ·0.33
```

- You can manually input rates up to 4 digits long (0.01% to 99.99%).

Taxable status of the [%–] key

- Whenever you perform a discount operation on the last item registered, the tax calculation for discount amount is performed in accordance with the tax status programmed for that item.
- Whenever you perform a discount operation on a subtotal amount, the tax calculation for the subtotal amount is performed in accordance with the tax status programmed for the [%–] key.

Preparing and using reductions

This section describes how to prepare and register reductions.

Programming for reductions

You can use the [–] key to reduce single item or subtotal amounts.

To program preset reduction amount

PGM (Mode switch) ➡ [1] [SUB TOTAL] ➡ □□□□□□ (Unit price) ➡ [–] ➡ [SUB TOTAL]

Registering reductions

REG (Mode switch)

The following examples show how you can use the [–] key in various types of registration.

Reduction for items

Item 1	Dept. 1	$5.00
	Quantity	1
	Taxable	(1) preset
Reduction	Amount	$0.25
Item 2	PLU 45	($6.00) preset
	Quantity	1
	Taxable	(1) preset
Reduction	Amount	($0.50) preset
Payment	Cash	$11.00

OPERATION

[5] [00] [1]

[2] [5] [–]

Reduces the last amount registered by the value input.

[4] [5] [PLU]

[–]

[SUB TOTAL]

[1] [1] [00] [CA/AMT TEND]

RECEIPT

```
1 DEPT01     T1     ·5.00
  –          T1     -0.25
1 PLU0045    T1     ·6.00
  –          T1     -0.50
  TA1              ·10.25
  TX1               ·0.41
  TL           ·10.66
  CASH             ·11.00
  CG                ·0.34
```

- You can manually input reduction values up to 7 digits long.
- If you want to subtract the reduction amount from the department or PLU totalizer, program “Net totaling.”

Reduction for subtotal

Item 1	Dept. 1	$3.00
	Quantity	1
	Taxable	(1)$_{preset}$
Item 2	Dept. 2	$4.00
	Quantity	1
	Taxable	(2)$_{preset}$
Subtotal Reduction	Amount	$0.75
	Taxable	(No)$_{preset}$
Payment	Cash	$7.00

OPERATION

3 00 1

4 00 2

SUB TOTAL

7 5 −

Reduces the subtotal by the value input here.

SUB TOTAL

7 00 CA/AMT TEND

RECEIPT

```
1 DEPT01      T1     ·3.00
1 DEPT02      T2     ·4.00
  -                 -0.75
  TA1                ·3.00
  TX1                ·0.12
  TA2                ·4.00
  TX2                ·0.20
  TL                 ·6.57
  CASH               ·7.00
  CG                 ·0.43
```

Registering credit and check payments

REG
Mode switch

The following examples show how to register credits and payments by check.

Check

OPERATION **RECEIPT**

Item	Dept. 1	$11.00
	Quantity	1
Payment	Check	$20.00

Operation:

1 1 00 [1]
[SUBTOTAL]
2 0 00 [CHK]

Receipt:

```
1 DEPT01        ·11.00
  TL           ·11.00
  CHECK         ·20.00
  CG             ·9.00
```

Charge

OPERATION **RECEIPT**

Item	Dept. 4	$15.00
	Quantity	1
Reference	Number	1234
Payment	Charge	$15.00

Operation:

1 5 00 [4]
[SUBTOTAL]
1 2 3 4 [#/NS]
[CH]

Receipt:

```
1 DEPT04        ·15.00
  #/NS            1234   — Reference No.
  TL           ·15.00
  CHARGE        ·15.00
```

Mixed tender (cash, charge and check)

OPERATION **RECEIPT**

Item	Dept. 4	$55.00
	Quantity	1
Payment	Check	$30.00
	Cash	$5.00
	Charge	$20.00

Operation:

5 5 00 [4]
[SUBTOTAL]
3 0 00 [CHK]
5 00 [CA/AMT TEND]
[CH]

Receipt:

```
1 DEPT04        ·55.00
  TL           ·55.00
  CHECK         ·30.00
  CASH           ·5.00
  CHARGE        ·20.00
```

Registering both the Euro and local currency

REG
Mode switch

The following example shows the basic operation using the currency exchange function between the Euro and the local currency.

Case A

Main currency	Local
Payment	Euro
Change	Local
Rate	1 Euro = 0.5 FFr

OPERATION		DISPLAY
6 0 0 [1]		
[PD]	Press the [PD] key, which converts the subtotal amount into the sub currency by applying the preset exchange rate.	0.00E
[SUB TOTAL]	After you press the [SUB TOTAL] key, the result is shown on the display.	12.00E
[PD]	Press the [PD] key if you enter the payment in the sub currency.	0.00E
1 5 00		15.00E
[CA/AMT TEND]	Press the [CA/AMT TEND] key to finalize the transaction. The change amount is shown in the programmed currency.	1.50

RECEIPT

```
1 DEPT01          ·6.00
  TL             ·6.00
               (€12.00)
  EURO money
  CASH           €15.00
  CASH           (·7.50)
  CG              ·1.50
                (€3.00)
```

Basic Operations and Setups

Case B

Main currency	Euro
Payment	Local
Change	Euro
Rate	1 Euro = 0.5 FFr

OPERATION		DISPLAY
1 2 00 1		
PD	Press the PD key, which converts the subtotal amount into the sub currency by applying the preset exchange rate.	0.00 L
SUB TOTAL	After you press the SUB TOTAL key, the result is shown on the display.	6.00 L
PD	Press the PD key if you enter the payment in the sub currency.	0.00 L
6 00		6.00 L
CA/AMT TEND	Press the CA/AMT TEND key to finalize the transaction. The change amount is shown in the programmed currency.	0.00

RECEIPT

```
1 DEPT01       €12.00
  TL           €12.00
               (·6.00)
  LOCAL money
  CASH          ·6.00
  CASH        (€12.00)
  CG            €0.00
               (·0.00)
```

Registering returned goods in the REG mode

REG
Mode switch

The following example shows how to use the RF key in the REG mode to register goods returned by customers.

Item 1	Dept. 1	$2.35
	Quantity	1
Item 2	Dept. 2	$2.00
	Quantity	1
Item 3	PLU 1	($1.20)preset
	Quantity	1
Returned Item 1	Dept. 1	$2.35
	Quantity	1
Returned Item 3	PLU 1	($1.20)preset
	Quantity	1
Payment	Cash	$2.00

OPERATION

2 3 5 [1]
2 00 [2]
1 [PLU]
[RF]
2 3 5 [1]
Press RF before the item you want to return.
[RF]
1 [PLU]
[SUB TOTAL]
[CA/AMT TEND]

RECEIPT

```
1 DEPT01         ·2.35
1 DEPT02         ·2.00
1 PLU0001        ·1.20
  RF          ········
1 DEPT01         -2.35
  RF          ········
1 PLU0001        -1.20
  TL             ·2.00
  CASH           ·2.00
```

Registering returned goods in the RF mode

RF
Mode switch

The following examples show how to use the RF mode to register goods returned by customers.

Normal refund transaction

Returned Item 1	Dept. 1	$1.50
	Quantity	2
Returned Item 2	PLU 2	($1.20)preset
	Quantity	6
Payment	Cash	$10.20

OPERATION

1 5 0 [1]
[1]
6 [X]
2 [PLU]
[CA/AMT TEND]

RECEIPT

```
RF  03-06-2006 11:50
C01     MC#01     000023

1 DEPT01          ·1.50
1 DEPT01          ·1.50
6 PLU0002         ·7.20
  TL             ·10.20
  CASH           ·10.20
```

RF mode symbol

Reduction of amounts paid on refund

Returned Item 1	Dept. 3	$4.00
	Quantity	1
Reduction	Amount	$0.15
Returned Item 2	PLU 2	($1.20)preset
	Quantity	1
Discount	Rate	(5%)preset
Payment	Cash	$4.99

OPERATION

4 00 3
1 5 −
2 PLU
%−
SUB TOTAL
CA/AMT TEND

RECEIPT

```
1 DEPT03        ·4.00
  -            -0.15
1 PLU0002       ·1.20
  5%
  %-           -0.06
  TL           ·4.99
  CASH          ·4.99
```

Important!

• To avoid miss registrations in the RF mode, return the mode switch to the former position immediately.

Registering money received on account

REG
Mode switch

The following example shows how to register money received on account. This registration must be performed out of a sale.

Received amount	$700.00

OPERATION

7 00 00 RC

Amount can be up to 8 digits.

RECEIPT

```
RC           ·700.00
```

Registering money paid out

REG
Mode switch

The following example shows how to register money paid out from the register. This registration must be performed out of a sale.

Paid out amount	$1.50

OPERATION

1 5 0 PD

Amount can be up to 8 digits.

RECEIPT

```
PD             ·1.50
```

Making corrections in a registration

REG
Mode switch

There are three techniques you can use to make corrections in a registration.

- To correct an item that you input but not yet registered.
- To correct the last item you input and registered.
- To cancel all items in a transaction.

To correct an item you input but not yet registered

OPERATION	
2 00	Correction of unit price
C	
1 00 1	
1 2 X	Correction of quantity
C	
1 1 X	
2 00 2	
2	Correction of PLU No.
C	
3 PLU	
15 PLU	Correction of open PLU unit price
6 00	
C	
15 PLU (Enter PLU No. again.)	
1 0 00 PRICE	
SUB TOTAL	
1 0 00	Correction of partial tender amount
C	
1 5 00 CA/AMT TEND	
CH	

RECEIPT

```
 1 DEPT01          ·1.00
11 DEPT02         ·22.00
 1 PLU0003         ·1.30
 1 PLU0015        ·10.00
   TL          ·34.30
   CASH           ·15.00
   CHARGE         ·19.30
```

To correct an item you input and registered

OPERATION		RECEIPT

OPERATION

1 00 [1]
2 00 [2]
[2] [ERR CORR./CANCEL] — Clearance
2 [PLU] [ERR CORR./CANCEL] 5 [PLU] — Correction of PLU No.
1 5 [PLU] 6 00 [PRICE] [ERR CORR./CANCEL] 1 5 [PLU] 1 0 00 [PRICE] — Correction of open PLU unit price
8 [X] 4 00 [4] [ERR CORR./CANCEL] 6 [X] 4 00 [4] — Correction of quantity
[SUB TOTAL] 5 0 [%−] [ERR CORR./CANCEL] [SUB TOTAL] 5 [%−] — Correction of discount
[RF] 2 00 [2] [ERR CORR./CANCEL] [RF] 2 2 0 [2] — Correction of refund item
[SUB TOTAL]
2 0 00 [CA/AMT TEND] [ERR CORR./CANCEL] 1 5 00 [CA/AMT TEND] — Correction of partial tender
[CH]

RECEIPT

```
 1 DEPT01          ·1.00
 1 DEPT02          ·2.00
 1 PLU0005         ·1.50
 1 PLU0015        ·10.00
 6 DEPT04         ·24.00
   ST             ·38.50
     5%
   %-             -1.93
   RF          .........
 1 DEPT02         -2.20
   TL            ·34.37
   CASH           ·15.00
   CHARGE         ·19.37
```

Corrected items are not printed on receipt.

To cancel all items in a transaction

OPERATION	RECEIPT
1 00 [1] 2 00 [2] 3 00 [3] 4 00 [4] [SUB TOTAL] Pressing [SUB TOTAL] key is necessary to cancel the transaction. [ERR.CORR. CANCEL]	1 DEPT01 ·1.00 1 DEPT02 ·2.00 1 DEPT03 ·3.00 1 DEPT04 ·4.00 CANCEL ·········

No sale registration

REG
Mode switch

You can use the following procedure to open the drawer without registering a sale. This operation must be performed out of a sale.

OPERATION	RECEIPT
[#/NS]	#/NS ·········

Printing the daily sales reset report

This report shows daily sales totals.

OPERATION

Z1 (Mode switch)

↓

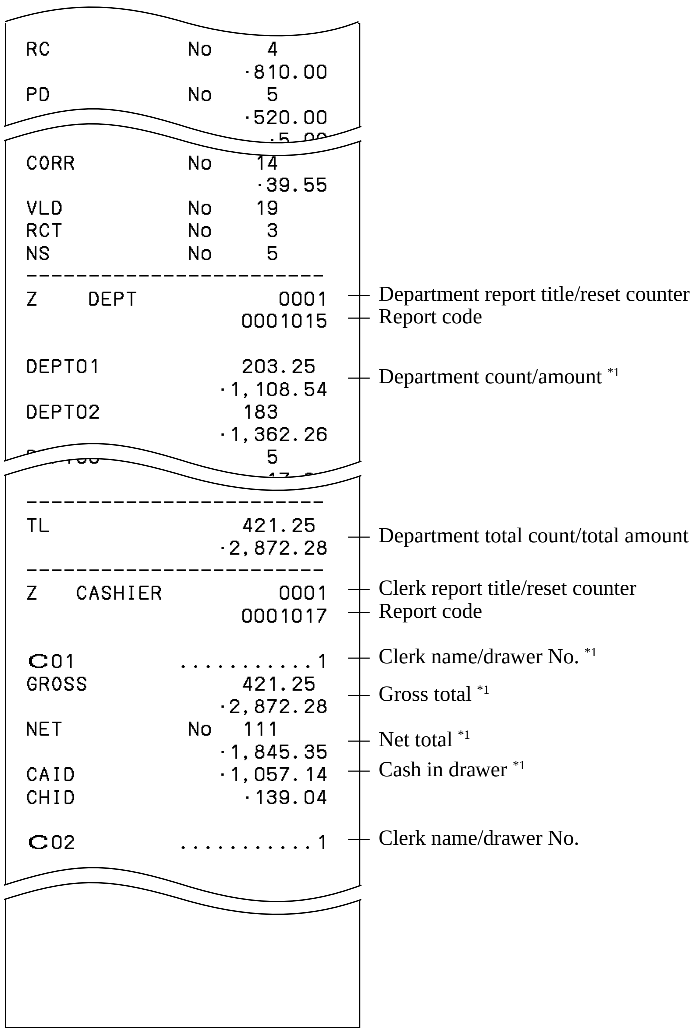
CA/AMT TEND

REPORT

```
Z   03-06-2006 17:00
C01     MC#01    000231
------------------------
Z    BATCH 01
------------------------
Z    FIX            0001
                 0001011

GROSS             981.25
               ·6,574.40
NET           No   111
               ·7,057.14
CAID           ·1,919.04
CHID             ·139.04
CKID             ·859.85
CRID(1)          ·709.85
------------------------
RF            No     3
                  ·10.22
CUST          CT   111
AVRG              ·63.57
DC                 ·1.22
REF                ·2.42
CLEAR         No    85
ROUND              ·0.00
CANCEL        No     2
                  ·12.97
------------------------
TA1            ·2,369.69
TX1              ·128.86
TA2            ·2,172.96
TX2              ·217.33
------------------------
GT1    ·00000000125478.96
GT2    ·00000000346284.23
GT3    ·00000000123212.75
------------------------
Z    TRANS          0001
                 0001012
CASH          No   362
               ·1,638.04
CHARGE        No    56
               ·1,174.85
```

- Date/time
- Clerk name/mc No./consecutive No.
- Report title
- Fixed total report title/reset counter
- Report code
- Gross total *2
- Net total *2
- Cash in drawer *2
- Charge in drawer *2
- Check in drawer *2
- Credit in drawer *2
- Refund mode *2
- Number of customer *2
- Average sales per customer *2
- Discount total *2
- Refund key *2
- Clear key count *2
- Rounding total *2
- Cancellation *2
- Taxable 1 amount *2
- Tax 1 amount *2
- Taxable 2 amount *2
- Tax 2 amount *2
- Grand total 1 *2
- Grand total 2 *2
- Grand total 3 *2
- Function key report title/reset counter
- Report code
- Function key count/amount *1



[*1] Zero totalled departments/functions/clerks are not printed by programming.

[*2] These items can be skipped by programming.

This chapter describes more sophisticated operations that you can use to suit the needs of your retail environment.

Stock check

Each PLU has an actual stock totalizer that you can program with a minimum stock quantity. Then the register checks actual stock quantities against the programmed minimum stock quantities. Stock operations are performed only for PLUs programmed with minimum stock quantities.

Stock warnings

The cash register checks for negative values in actual stock quantities during the registration itself. After registration is complete, it checks actual stock quantities against minimum stock quantities. The following warning indicators are used to inform the operator of any problem.

• Negative stock:
This indicates that the actual stock quantity is negative. You can also program the cash register to treat this condition as an error. This warning does not appear when the actual stock quantity is zero.

• Under minimum stock:
This indicates that the actual stock quantity is less than or equal to the minimum stock quantity. The cash register can be programmed so that a buzzer sounds when the actual stock quantity is less than the minimum stock quantity.

Notes
• The stock check operation is also performed for PLUs programmed with minimum stock quantities that make up set menus.
• None of the warning indicators appear unless the cash register is specifically programmed for the stock check operation.
• Stock operations can be performed for registrations in the RF mode or those performed with <REFUND> (the refund key).
• An error correct, void, or cancel operation restores the original of items in stock value.

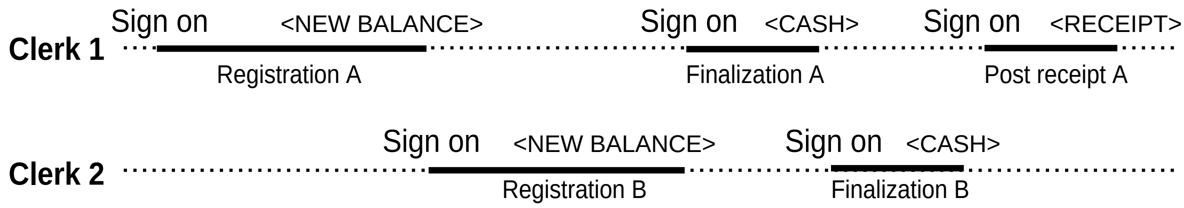
Clerk interrupt function

There are two types of clerk interrupt function, illustrated by PROCEDURE 1 and PROCEDURE 2 below.
• In PROCEDURE 1, each clerk possesses a unique clerk interrupt buffer, and so the clerk interrupt function gives each individual clerk the ability to perform an independent registration operation. In this case, each clerk is individually linked to a unique clerk interrupt buffer.
• In PROCEDURE 2, multiple clerks use the same clerk interrupt buffer, and so a single clerk interrupt operation (clerk change during registration) can be performed any registration is in progress. In this case, multiple clerks are linked to a single clerk interrupt buffer.

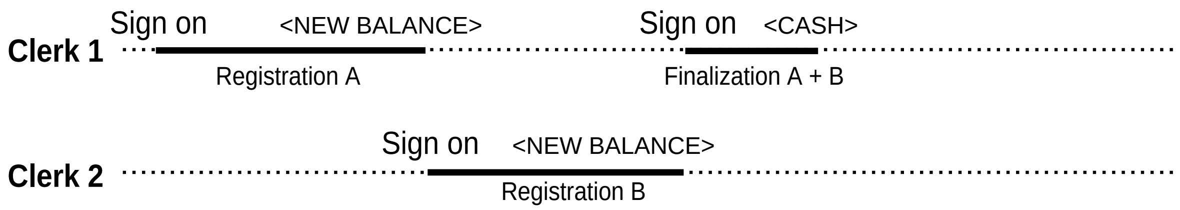
Note the following important points concerning the clerk interrupt function.
• The register must be programmed to allow use of the clerk interrupt function.
• To use the clerk interrupt function, a clerk interrupt buffer must first be allocated with the memory allocation operation. Next the manager control operation (X1 mode) should be used to perform clerk assignment for the clerk interrupt function. The clerk interrupt operation cannot be performed by clerks who are not linked to a clerk interrupt buffer.
• You cannot use the clerk interrupt function on a register set up to function as part of a check tracking system.

In the REG1, REG2, and RF modes, clerks can be change while a transaction is in progress, making it possible for multiple clerks to simultaneously perform registrations using a single register.
For example, if clerk 1 is interrupted while registering a transaction, clerk 2 can use the same machine to register a different transaction. Then clerk 1 can continue the original registration from the point where it was interrupted.

PROCEDURE 1



PROCEDURE 2



NOTES

- A guest receipt can be issued following clerk change, and receipts can be issued separately for each clerk.
- A cancel operation can be performed during registration by either of the clerks. When clerk 1 signs back on (after being interrupt by clerk 2), the cancel operation cancels only the items registered after signing back on (only this receipt) or from the top of the transaction. This is selectable by the key program.

Single item cash sales

A department key or PLU programmed with single item sale status finalizes the transaction as soon as it is registered.
The single item sales function cannot work properly if the keyboard does not include <CASH> (the cash key).
The single item sales function can only be used for cash sales.

Example 1

Item	Dept. 1	$1.00
	Quantity	1
	Status	S.I.S
Payment	Cash	$1.00

OPERATION



The transaction is immediately finalized.

RECEIPT

```
1 DEPT01          •1.00   — Department No./unit price
  TL           • 1 . 00
  CASH            •1.00   — Cash total amount
```

Advanced Operations

Example 2

Item	Dept. 1	($1.00)
	Quantity	3
	Status	S.I.S
Payment	Cash	$3.00

OPERATION

3 X
1

The transaction is immediately finalized.

RECEIPT

```
3 DEPT01        •3.00
  TL            •3.00
  CASH          •3.00
```

Example 3

Item 1	Dept. 3	$2.00
	Quantity	1
	Status	Normal
Item 2	Dept. 1	($1.00)
	Quantity	1
	Status	S.I.S
Payment	Cash	$3.00

OPERATION

2 00 3
1

The transaction is not finalized. Because another item is registered before the single item sales department.

CA/AMT TEND

RECEIPT

```
1 DEPT03        •2.00
1 DEPT01        •1.00
  TL            •3.00
  CASH          •3.00
```

Addition

Addition (plus)

Example

Item 1	Dept. 1	$1.00
	Quantity	1
	Addition	$0.10
Item 2	Dept. 1	$2.00
	Quantity	3
	Addition	3 × ($0.20)
Payment	Cash	$7.70

OPERATION

1 00 1
1 0 +
3 X
2 00 1
3 X
+
CA/AMT TEND

RECEIPT

```
1 DEPT01        •1.00
  +             •0.10
3 DEPT01        •6.00
  +             •0.60
  TL            •7.70
  CASH          •7.70
```

Premium (%+)

Example

Item 1	Dept. 1	$1.00
	Quantity	1
	Premium	10%
Item 2	Dept. 1	$2.00
	Quantity	3
Subtotal	Premium	(15%)
Payment	Cash	$8.17

OPERATION

1 00 [1]
1 0 [%+]
3 [X]
2 00 [1]
[SUB TOTAL]
[%+]
[CA/AMT TEND]

RECEIPT

```
 1 DEPT01          •1.00
   10%
   %+              •0.10
 3 DEPT01          •6.00
   ST              •7.10
   15%
   %+              •1.07
   TL           •8.17
   CASH            •8.17
```

Tray total

Tray total premium/discount

The buffer memory stores all items that fall into the prescribed range, starting from the first item registered for a transaction up to the point that <TRAY TOTAL> (the tray total key) is pressed to perform a tray total premium/discount operation. Following a premium/discount operation, the buffer is cleared and storage of new data starts from registration of the next item following the first premium/discount operation. The following operations clear the buffer memory.

- Press <TRAY TOTAL> twice.
- Press <TRAY TOTAL> and then perform a premium/discount operation. The contents of the buffer memory are restored if an error correction operation is performed to delete the premium/discount operation.

Example

Group 1	Dept. 1	$1.00
	Dept. 3	$2.00
	Discount	(5%)preset
Group 2	Dept. 3	$3.00
	Dept. 4	$4.00
	Discount	10%
Payment	Cash	$9.15

OPERATION

1 00 [1]
2 00 [3]
[TRAY TOTAL]
[%−]
3 00 [3]
4 00 [4]
[TRAY TOTAL]
1 0 [%−]
[CA/AMT TEND]

RECEIPT

```
1 DEPT01          •1.00
1 DEPT03          •2.00
  TRAY TL       •3.00
   5%
  %-             -0.15
1 DEPT03          •3.00
1 DEPT04          •4.00
  TRAY TL       •7.00
  10%
  %-             -0.70
  TL            •9.15
  CASH            •9.15
```

Multiple item totalling function

This function accumulates all items registered from the first item registered up to point that <TRAY TOTAL> is pressed, or all items between two presses of <TRAY TOTAL>. Pressing <TRAY TOTAL> displays the total amount with the tax included and prints it on the receipt and journal (printing on receipt and journal is programmable.)

Example

CustomerA	Dept. 1	$1.00
	Dept. 3	$2.00
CustomerB	Dept. 3	$3.00
	Dept. 4	$4.00
Payment	Cash	$10.00

OPERATION

1 00 [1]
2 00 [3]
[TRAY TOTAL] [TRAY TOTAL]
3 00 [3]
4 00 [4]
[TRAY TOTAL] [TRAY TOTAL]
[CA/AMT TEND]

RECEIPT

```
1 DEPT01          •1.00
1 DEPT03          •2.00
  TRAY TL       •3.00
1 DEPT03          •3.00
1 DEPT04          •4.00
  TRAY TL       •7.00
  TL           •10.00
  CASH           •10.00
```

Coupon transactions

Note that errors result when the result of a calculation is negative if the cash register is programmed to prohibit credit balances.

Coupon registration using <COUPON> (coupon key)

Example

Item 1	Dept. 1	$3.00
	Quantity	2
	Coupon	$0.50 × 2
Item 2	Dept. 3	$4.00
	Quantity	1
	Coupon	($1.00)
Payment	Cash	$8.00

OPERATION

2 X
3 00 1
2 X
5 0 CPN
4 00 3
CPN
CA/AMT TEND

RECEIPT

```
2 DEPT01        ·6.00
  COUPON       -1.00
1 DEPT03        ·4.00
  COUPON       -1.00
  TL            ·8.00
  CASH          ·8.00
```

Coupon registration using <COUPON2> (coupon 2 key)

Example

Item 1	Dept. 1	$15.00
	Quantity	1
	Coupon 2 Dept. 1	$1.50
Item 2	PLU 10	$5.00
	Quantity	1
	Coupon 2 PLU 50	($0.50)
Payment	Cash	$18.00

OPERATION

1 5 00 1
CPN2 1 5 0 1
1 0 PLU
CPN2 5 0 PLU
CA/AMT TEND

RECEIPT

```
1 DEPT01        ·15.00
  CPN2        ········
1 DEPT01        -1.50
1 PLU0010       ·5.00
  CPN2        ········
1 PLU0050       -0.50
  TL            ·18.00
  CASH          ·18.00
```

Preset tender amount

An amount up to six digits long can be programmed to <CASH> (cash/amount tendered key). Then, when <CASH> is pressed without inputting a value, the programmed value is automatically registered and the transaction is finalized. When an amount is programmed to <CASH>, attempting to manually input an amount results in an error.

Example 1

Item	Dept. 1	$8.00
	Quantity	1
Payment	Cash	($10.00)

OPERATION

8 00 1
CA/AMT TEND

The preset amount is tendered.

RECEIPT

```
1 DEPT01        •8.00
  TL            •8.00
  CASH         •10.00
  CG            •2.00
```

Example 2

Item	Dept. 1	$15.00
	Quantity	1
Payment	Cash	($10.00)
	Check	$5.00

OPERATION

1 5 00 1
1 0 00 CA/AMT TEND
An error occurs by manual input
C
5 00 CHK
CA/AMT TEND

RECEIPT

```
1 DEPT01       •15.00
  TL           •15.00
  CHECK         •5.00
  CASH         •10.00
  CG            •0.00
```

Registering loan amounts

REG
Mode switch

Use this procedure to register loan or bank received from the office.

Item	Note	$1.00
	Quantity	10
	Note	$5.00
	Quantity	5
Media	Cash	$35.00

OPERATION

1 0 X
1 00 LOAN
5 X
5 00 LOAN
CA/AMT TEND

RECEIPT

```
LOAN    •10.00
LOAN    •25.00
CASH    •35.00
```

Registering pick up amounts

REG
Mode switch

Use this procedure to register pick up money from cash drawer.

OPERATION **RECEIPT**

Item	Coin	$0.50
	Quantity	10
	Coin	$0.10
	Quantity	5
Media	Cash	$5.50

1 0 X
5 0 PICK UP
5 X
1 0 PICK UP
CA/AMT TEND

```
P.UP          ·5.00
P.UP          ·0.50
CASH          ·5.50
```

Changing media in drawer

REG
Mode switch

Use this procedure to change media in drawer.

OPERATION **RECEIPT**

Media	Check	-10.00
	Cash	$8.00
	Charge	$2.00

MEDIA CHANGE
1 0 00 CHK
Enter the amount to be changed.
8 00 CA/AMT TEND
2 00 CH

```
MEDIA CHG     .........
CHECK            ·10.00
CASH              ·8.00
CHARGE            ·2.00
```

Bottle link operation

You can link PLU to a PLU.

Example

Item 1	PLU 1	($8.00)
	PLU 11 linked	($0.80)
	Quantity	1
Item 2	PLU 2	($5.00)
	PLU 12 linked	($0.50)
	Quantity	3
Payment	Cash	$30.00

OPERATION

1 PLU
3 X
2 PLU
3 0 00 CA/AMT TEND

RECEIPT

```
 1 PLU0001        •8.00
 1 PLU0011        •0.80
 3 PLU0002       •15.00
 3 PLU0012        •1.50
   TL            •25.30
   CASH          •30.00
   CG             •4.70
```

Bottle returns

Bottle return key

You can use the linked bottle return key to register a bottle return. A PLU whose programmed unit price represents the contents of the bottle, can be linked with PLU whose programmed unit price represents the deposit on the bottle. In the following example, the bottle return key has been programmed to operate as a linked bottle return key.

The bottle return key must be pressed before input of each new linked bottle return.

Example

Return Item 1	PLU 1	($8.00)
	PLU 11 linked	($0.80)
	Quantity	1
Return Item 2	PLU 2	($5.00)
	PLU 12 linked	($0.50)
	Quantity	3
Payment	Cash	$2.30

OPERATION

BR 1 PLU
3 X
BR 2 PLU
CA/AMT TEND

RECEIPT

```
   BR            .........
 1 PLU0011          -0.80
   BR            .........
 3 PLU0012          -1.50
   TL               -2.30
   CASH             -2.30
```

Arrangement key registrations

Key operations can be assigned to an <ARRANGE> (arrangement key). Then, simply pressing <ARRANGE> performs all of the key functions assigned to it.
Key operations can also be assigned to an address code. Then, when you input the address code using <ARRANGE>, all of the key functions assigned to the address code are performed.

Example 1

Arrangement 1		
Item 1	PLU 1	($8.00)
	Quantity	1
Item 2	PLU 2	($5.00)
	Quantity	1
Payment	Cash	$13.00

OPERATION

ARR

RECEIPT

```
1 PLU0001        ·8.00
1 PLU0002        ·5.00
  TL          ·13.00
  CASH          ·13.00
```

Example 2

Arrangement 5		
Item 1	Dept 1	$1.00
	Quantity	1
Item 2	Dept 2	$2.00
	Quantity	1
Payment	Cash	$3.00

OPERATION

5 ARR

RECEIPT

```
1 DEPT01         ·1.00
1 DEPT02         ·2.00
  TL            ·3.00
  CASH           ·3.00
```

Set menu

When you register a set menu, its total amount is added to the PLU totalizer and counter. The price of each set menu item is also added to each respective PLU totalizer and counter.

Example

Set menu	PLU 35	$5.00
Item 1	PLU 1	--
Item 2	PLU 2	--
Item 3	PLU 3	--
Item 4	PLU 4	--
Payment	Cash	$5.00

OPERATION

3 5 PLU

CA/AMT TEND

RECEIPT

```
1 PLU0035        ·5.00
   PLU0001
   PLU0002
   PLU0003
   PLU0004
  TL            ·5.00
  CASH           ·5.00
```

Currency exchange function

When <CE> (currency exchange key) is pressed, a current subtotal including tax is converted directly into foreign currency and the result is displayed, and the subsequent finalization is handled using the foreign currency. The currency exchange function is released by finalizing a transaction, partial tender operation, receipt issuance, or by pressing <SUBTOTAL>.
Before using the currency exchange function, it is necessary to program the conversion rate.

Registering foreign currency

Full amount tender in foreign currency

* Pre-programmed exchange rate: ¥ 100 = $0.9524

Important!

Tenders in a foreign currency can be registered using the CA/AMT TEND and CHK only.
Other finalize keys cannot be used.

OPERATION		DISPLAY	RECEIPT
1 0 00 1	Enter the unit price and press the applicable department key.	10.00 (Displays in $)	1 DEPT01 ·10.00 1 DEPT02 ·20.00 TL ·30.00 CE CASH ¥5,000 CASH ·47.62 CG ·17.62
2 0 00 2	Enter the next unit price and press the applicable department key.	20.00 (Displays in $)	
CE SUB TOTAL	Press CE and SUB TOTAL without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a pre-programmed exchange rate. The result is shown on the display and printed on the receipt/journal by programming.	3.150 (Displays in ¥: 3,150)	
5 0 00 CE (5,000)	Enter the amount tendered in yen and press CE. This operation converts the entered yen amount into dollars by applying a pre-programmed exchange rate. The result is shown on the display.	5.000	
CA/AMT TEND	Press to finalize the transaction. Note that you do not need to reenter the dollar amount. The register automatically calculates the change amount due in dollars and shows it on the display, receipts and journal.	17.62 (Displays in $)	

Partial tender in a foreign currency

* Pre-programmed exchange rate: ¥ 100 = $0.9524

Important!

Partial tender in a foreign currency can be registered using [CA/AMT TEND] and [CHK] only. Other finalization keys cannot be used, but the remaining tender can be finalized using any finalize key.

OPERATION		DISPLAY
[1] [0] [00] [1]	← Enter the unit price and press the applicable department key.	10.00 (Displays in $)
[2] [0] [00] [2]	← Enter the next unit price and press the applicable department key.	20.00 (Displays in $)
[CE] [SUB TOTAL]	← Press [CE] and [SUB TOTAL] without entering a numeric value. This operation converts the subtotal (including tax) dollar value into yen by applying a pre-programmed exchange rate. The result is shown on the display and printed on the receipt/journal by programming.	3.150 (Displays in ¥: 3,150)
[2] [0] [00] [CE] (2,000)	← Enter the partial amount tendered in yen and press [CE]. This operation converts the entered yen amount into dollars by applying a pre-programmed exchange rate. The result is shown on the display.	2.000
[CA/AMT TEND]	← Press [CA/AMT TEND] to specify cash tender for the yen partial tender. Note that you do not need to reenter the dollar amount. The register automatically deducts the dollar equivalent of the yen amount tendered from the total amount due and shows the amount on the display.	10.95 (Displays in $)
[CHK]	← Press to finalize the transaction.	10.95 (Displays in $)

RECEIPT

```
1 DEPT01          ·10.00
1 DEPT02          ·20.00
  TL              ·30.00
  CE
  CASH           ¥2,000
  CASH            ·19.05
  CHECK           ·10.95
```

Advanced Operations

Tips

Example

Item 1	Unit price	$3.00
	Dept.	1
Item 2	Unit price	$5.00
	Dept.	2
Tip	Amount	$0.80
Payment	Cash	$10.00

OPERATION	RECEIPT
3 00 1	1 DEPT01 ·3.00
5 00 2	1 DEPT02 ·5.00
SUB TOTAL	TIP ·0.80
8 0 TIP	TL ·8.80
1 0 00 CA/AMT TEND	CASH ·10.00
	CG ·1.20

Inputting the number of customers

Example 1

Item 1	Unit price	$15.00
	Dept.	1
Item 2	Unit price	$5.00
	Dept.	2
Customer	Number	2
Payment	Cash	$20.00

OPERATION

2 CST
1 5 00 1
5 00 2
SUB TOTAL
CA/AMT TEND

RECEIPT

```
  CT               2
1 DEPT01      ·15.00
1 DEPT02       ·5.00
  TL          ·20.00
  CASH        ·20.00
```

Example 2

You can only use the following operation to re-input the number of customers when <CUSTOMER> (customer number key) is preset to allow re-input. When programming prohibits re-input of the number of customers, this operation causes an error.

OPERATION

3 CST
1 5 00 1
5 00 2
2 CST
SUB TOTAL
CA/AMT TEND

RECEIPT

```
  CT               3
1 DEPT01      ·15.00
1 DEPT02       ·5.00
  CT               2
  TL          ·20.00
  CASH        ·20.00
```

You can re-input the number of customers either immediately after the initial input or during later registration.

Example 3

You can use the following operation to add customers to an original number of customers input (when addition to the number of the customer is allowed).

OPERATION

3 CST
1 5 00 1
5 00 2
2 CST
SUB TOTAL
CA/AMT TEND

RECEIPT

```
  CT               3
1 DEPT01      ·15.00
1 DEPT02       ·5.00
  CT               5
  TL          ·20.00
  CASH        ·20.00
```

Text recall

This procedure is used to recall text by inputting the address where the text is stored. The recalled text is printed on the receipt and journal.

Example

Item 1	Unit price	$46.00
	Dept.	1
Item 2	Unit price	$10.00
	Dept.	2
Payment	Cash	$56.00
Text 1	MEDIUM SIZE	
Text 2	SMALL SIZE	

OPERATION

4 6 00 [1]
1 [TEXT RECALL]
1 0 00 [2]
2 [TEXT RECALL]
[SUB TOTAL]
[CA/AMT TEND]

RECEIPT

```
  CT                 3
 1 DEPT01       ·46.00
MEDIUM SIZE
 1 DEPT02       ·10.00
SMALL SIZE
  TL            ·56.00
  CASH          ·56.00
```

Temporarily releasing compulsion

<OPEN 2> (open 2 key) can be programmed to release specific compulsion.

Example 1

Item	Unit price	$10.00
	Dept.	1
Payment	Check	$10.00
Slip validation compulsory		

OPERATION

1 0 00 [1]
1 0 00 [CHK]

2 00 [2]
Validation compulsory

[OPEN 2] Validation compulsory is temporarily released.

RECEIPT

```
 1 DEPT01       ·10.00
  TL            ·10.00
  CHECK         ·10.00
```

Example 2

Input customer No. compulsory		
Item	Unit price	$10.00
	Dept.	1
Payment	Check	$10.00

OPERATION

1 0 00 [1]
Input customer No. compulsory

[OPEN 2]

Compulsory is temporarily released.

1 0 00 [1]
1 0 00 [CHK]

RECEIPT

```
 1 DEPT01       ·10.00
  TL            ·10.00
  CHECK         ·10.00
```

Printing slip

To perform batch printing on the slip printer, you must first use the memory allocation operation (see program 5 mode in the dealer's manual) to reserve slip buffer memory. The capacity of the slip buffer memory is determined by the number of units of slip buffer memory reserved by the memory allocation operation.
The register can be programmed to check the status of the registration buffer memory whenever slip batch printing is performed, and sound an alarm when the buffer memory is almost full. The alarm sounds when there are 12 lines or less remaining, and once it starts to sound, the only operation you can perform is the cancel operation or operations using one of the following keys.

- <CA/AMT TEND> (cash/amount tendered key) operation
- <CH> (charge key) operation
- <CHK/TEND> (check tendered key) operation
- <DEPOSIT> (deposit key) operation
- <NEW BALANCE> (new balance key) operation
- <SUBTOTAL> (subtotal key) operation

You must perform one of above operations when the registration buffer alarm sounds. Any other operations results in an error.

Printing slips

The cash register can be connected to the optional SP-1300 slip printer, which features an automatic feed function and automatic back feed function.

• Automatic feed function

This function makes it possible to program the number of line feeds that should be inserted from the normal print start position before starting slip printing of a new slip. Even if line feeds are programmed for this function, they are not inserted for validation printing, check endorsement printing, and check printing performed using the slip printer. Note also that line feeds are not inserted automatically at the beginning of a second slip when the transaction requires printing that extends from one slip to another.

• Automatic back feed function

This function performs automatic back feed following slip printing, validation printing, and endorsement printing on the slip printer. The slip paper is released once the back feed operation is complete.

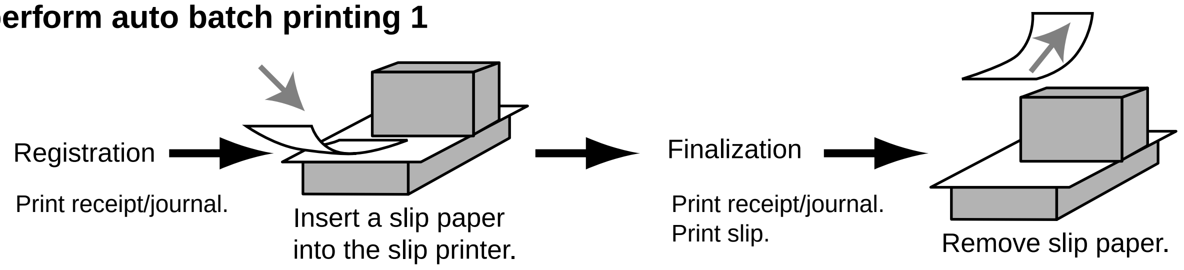
• Manual feed function

<SLIP FEED/RELEASE> (slip feed/release key: assigned to the register's keyboard using the program 4 mode) can be used for manual feed of the slip paper. You perform manual feed by inputting a value for the number of lines (up to two digits in the range of 1 to 99) and then press <SLIP FEED/RELEASE>.

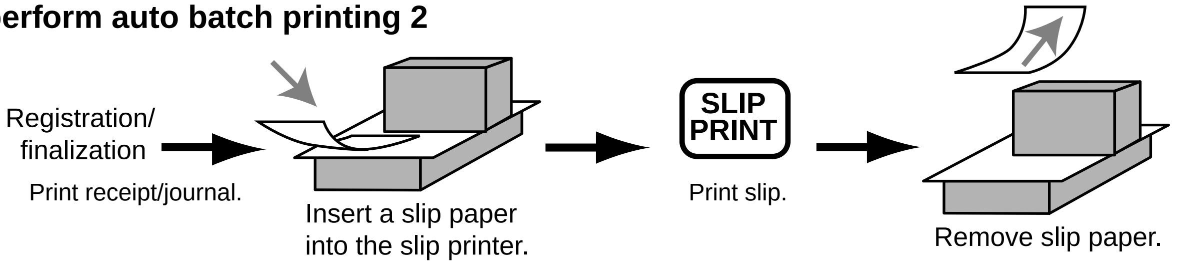
• Manual back feed function

<SLIP BACK FEED/RELEASE> (slip back feed/release key: assigned to the register's keyboard using the program 4 mode) can be used for manual back feed of the slip paper. Manual back feed can be performed by inputting a value for the number of lines (up to two digits in the range of 1 to 99) and then press <SLIP BACK FEED/RELEASE>.
You can print slips using automatic or manual batch printing. The slip print operation can be performed in REG1, REG2, and RF modes only.
Finalizing a registration without inserting a slip paper into the slip printer when the register is programmed as "slip paper insertion into slip printer compulsory before finalizing registration" produces an error.

To perform auto batch printing 1



To perform auto batch printing 2



About the maximum number of slip lines

You can program the maximum number of lines that can be printed on a slip. Once you do, any attempt to exceed the preset maximum results in an error. When such an error occurs, press <C>, change slip paper and press <SLIP PRINT> to restart printing.

Check tracking systems

Check tracking system

With the check tracking system, the amount, check number, number of slip print lines, store number, date/time and registration detail data are stored in two files (check tracking index file and check tracking detail file).

- Check tracking detail file and index file are cleared by the following timing:

1. The check is cleared after printing finalized data on slip or guest check receipts, or the check is also cleared when the new or old check operation is made.
2. The check is cleared after printing finalized data on slip or guest check receipt, or check is also cleared when the same finalized check number is assigned in new check operation.

   You can select one of these options by programming.

- Auto new balance function

  The register can be programmed so that whenever a clerk (by clerk key) signs off while a check is open, a <NEW BALANCE> operation is automatically performed to temporarily finalize the open check.
- You can specify a range of checks that can be opened by each clerk. Once you do, any attempt by a clerk to open a check using a number that is not within his specified range results in an error.
- Either of the following two operations can be used to correct input of a wrong check number.

  <NEW CHECK>

  Re-input the correct check number, or cancel the original check number, issue a receipt, and then re-input the correct check number.

  <OLD CHECK>, <NEW/OLD>

  Temporary finalize the original check number, issue a receipt, and then re-input the correct check number.

Opening a check

Example

OPERATION | **RECEIPT**

Check#		1234
Table#		33
Item 1	Dept 1	$10.00
	Quantity	2
Item 2	Dept 2	$20.00
	Quantity	2
Item 3	Dept 3	$30.00
	Quantity	1

```
1 2 3 4 [NEW CHECK]
3 3 [TABLE #]
1 0 00 [1]
[1]
2 0 00 [2]
[2]
3 0 00 [3]
```

Insert slip

```
[NB]
```

Remove slip

```
CHECK No. 1234

   TBL#              000033
 1 DEPT01            •10.00
 1 DEPT01            •10.00
 1 DEPT02            •20.00
 1 DEPT02            •20.00
 1 DEPT03            •30.00
   +                  •0.50   — New balance fee
   SRVC TL       •90.50
```

Press <NEW BALANCE> to temporarily close the transaction. If you want to finalize a check immediately, use <CASH>, <CHARGE>, <CREDIT> or <CHECK>.

Adding to a check

Example

OPERATION | **RECEIPT**

Check#		1234
Table#		33
Item 1	Dept 1	$30.00
	Quantity	1
Item 2	Dept 2	$10.00
	Quantity	1

```
1 2 3 4 [OLD CHECK]
3 0 00 [1]
1 0 00 [2]
```

Insert slip

```
[NB]
```

Remove slip

```
TABLE No.000033  CT     1
CHECK No. 1234

   ST                •90.50
 1 DEPT01            •30.00
 1 DEPT02            •10.00
   +                  •0.50
   SRVC TL
              •131.00
```

- The table number is stored in the check tracking index memory so its input is not required in this operation even if table number input is preset as compulsory. Table number input after inputting the check number may be performed, however, without generating an error.
- Once a check is opened under a number in a certain mode (REG1 or REG2), the same mode must be used to make additions to the check.

Issuing a guest receipt

The following operation can be used to print out the balance of a temporarily finalized check.

Example

OPERATION	RECEIPT
1 2 3 4 GUEST RECEIPT Input the number of check you want.	TABLE No.000033 CT 1 CHECK No. 1234 1 DEPT01 ·10.00 1 DEPT01 ·10.00 1 DEPT02 ·20.00 1 DEPT02 ·20.00 1 DEPT03 ·30.00 + ·0.50 1 DEPT01 ·30.00 1 DEPT02 ·10.00 + ·0.50 SRVC TL ·131.00

Closing a check memory

Example

OPERATION	RECEIPT
1 2 3 4 OLD CHECK 1 5 0 00 CA/AMT TEND	TABLE No.000033 CT 1 CHECK No. 1234 ST ·131.00 TL ·131.00 CASH ·150.00 CG ·19.00

SLIP

```
REG          03-04-2006      17:05
C01              MC#01      000150
TABLE No.000033             CT   1
CHECK No. 1234

       1 DEPT01             ·10.00
       1 DEPT01             ·10.00
       1 DEPT02             ·20.00
       1 DEPT02             ·20.00
       1 DEPT03             ·30.00
         +                   ·0.50
#12      SRVC TL           ·90.50
       1 DEPT01             ·30.00
       1 DEPT02             ·10.00
         +                   ·0.50
#16      SRVC TL          ·131.00
         TL               ·131.00
         CASH              ·150.00
         CG                 ·19.00
```

New/old check key operation

Example 1

When a check number is input and <NEW/OLD> is pressed, the key works as a new check key function if there is no matching check number in the check tracking memory.

OPERATION	RECEIPT
3 4 5 6 NEW/OLD Input a check number and press <NEW/OLD>. 1 0 00 1 2 0 00 2 NB	CHECK No.3456 1 DEPT01 ·10.00 1 DEPT02 ·20.00 + ·0.50 SRVC TL ·30.50

Example 2

When a check number is input and <NEW/OLD> is pressed, the key works as an old check key if there is matching check number in the check tracking memory.

OPERATION	RECEIPT
3 4 5 6 NEW/OLD 3 1 00 CA/AMT TEND	CHECK No.3456 ST ·30.50 TL ·30.50 CASH ·31.00 CG ·0.50

Add check

This operation lets you combine the amounts of more than one check into a single check.

Example

Registration for check number 1234

Original check

Check#		1234
Item 1	Dept 1	$10.00
	Quantity	1
Item 2	Dept 2	$20.00
	Quantity	1

OPERATION

1 2 3 4 NEW CHECK
3 3 TABLE #
1 0 00 1
2 0 00 2
NB

RECEIPT

```
CHECK No. 1234

   TBL#             000033
 1 DEPT01           ·10.00
 1 DEPT02           ·20.00
   +                 ·0.50
   SRVC TL         ·30.50
```

Registration for check number 3456

Added check

Check#		3456
Item	Dept 1	$30.00
	Quantity	1

OPERATION

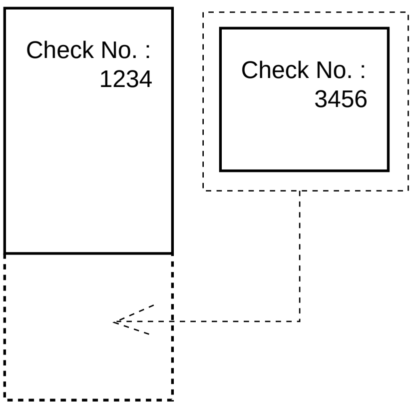
3 4 5 6 NEW CHECK
3 0 00 1
NB

RECEIPT

```
CHECK No. 3456

 1 DEPT01           ·30.00
   +                 ·0.50
   SRVC TL         ·30.50
```

Registration for check number 1234



OPERATION

1 2 3 4 OLD CHECK
3 4 5 6 ADD CHECK
NB

RECEIPT

```
TABLE No.000033    CT   1
CHECK No. 1234

   ST               ·30.50
   ADD CHK            3456
   ST               ·30.50
   +                 ·0.50
   SRVC TL         ·61.50
```

Separate check

This operation makes it possible to split a single check into separate checks.

Example

Original check

Check#		1234
Item 1	Dept 1	$10.00
	Quantity	1
Item 2	Dept 2	$20.00
	Quantity	1
Item 3	Dept 3	$30.00
	Quantity	1
Item 4	Dept 4	$40.00
	Quantity	1

Separated check

Check#		3456
Item 1	Dept 1	$10.00
	Quantity	1
Item 2	Dept 3	$30.00
	Quantity	1
Payment	Cash	$40.00

OPERATION	RECEIPT

3 **4** **5** **6** [NEW CHECK]

This input of a temporary check number can be skipped.

1 **2** **3** **4** [SEPARATE CHECK]

Input the original check number by <SEP CHK>.
Display shows the 1st item which will be separated.

[SEPARATE CHECK]

After <SEP CHK>, this item is separated.

[REVIEW]

Display shows the 3rd item which will be separated.

[SEPARATE CHECK]

[NB]

4 **0** **00** [CA/AMT TEND]

```
CHECK No.3456

   SEP CHK            1234
 1 DEPT01            •10.00
 1 DEPT03            •30.00
   TL               •40.00
   CASH              •40.00
   CG                •0.00
```

Price reductions (red price)

You can use the reduced price function to change a price; generally to an amount that is less than the normal price. You can program the register so that it prints the normal price, and the difference between the two prices on the receipt, while on journal, these items are always printed.

The following functions are able to work with red price.

- Department and PLU
- Quantity extension (Preset price is required for both department and PLU.)
- Amount limitation of item program (It effects to new price.)

Note that you cannot use red price with the following types of item.

- Department and PLUs programmed with negative unit prices
- Set menus and link PLUs
- Multiplication operations that use the format: Amount × Quantity

Example 1

Item	Dept 1	$6.00
	Red price	$4.00
Payment	Cash	$4.00

OPERATION

4 00 RED PRICE
Input a reduced price.

6 00 1

CA/AMT TEND

RECEIPT

```
   RED              ·6.00   — Old price
   RED PRC          -2.00   — Reduced price
 1 DEPT01           *4.00   — New price (Difference between two prices)
   TL               ·4.00
   CASH             ·4.00
```

Example 2

Item	PLU 1	$4.00
	Red price	$2.00
Payment	Cash	$6.00

OPERATION

3 X

2 00 RED PRICE
Input a reduced price.

1 PLU

CA/AMT TEND

RECEIPT

```
   RED             ·12.00
   RED PRC          -6.00
 3 PLU0001          *6.00
   TL               ·6.00
   CASH             ·6.00
```

Condiment/preparation PLUs

You can force entering condiment or preparation PLU after the main PLU registration by programming.

Example (condiment PLU)

Main item	PLU 1	$10.00
Condiment	PLU 11	$0.10
	PLU 12	$0.20
	PLU 13	$0.30
Payment	Cash	$10.60

OPERATION

1 PLU

Registering main PLU.
No condiment registration occurs an error condition.

1 1 PLU
1 2 PLU
1 3 PLU
CA/AMT TEND

RECEIPT

```
1 PLU0001        ·10.00
  PLU0011         ·0.10
  PLU0012         ·0.20
  PLU0013         ·0.30
 TL             ·10.60
 CASH            ·10.60
```

Example (preparation PLU)

Main item	PLU 20	$20.00
Preparation	PLU 21	$0.00
	PLU 22	$0.00
	PLU 23	$0.00
Payment	Cash	$20.00

OPERATION

2 0 PLU

Registering main PLU.

2 1 PLU
2 2 PLU
2 3 PLU
CA/AMT TEND

RECEIPT

```
1 PLU0020        ·20.00
  PLU0021
  PLU0022
  PLU0023
 TL             ·20.00
 CASH            ·20.00
```

VAT breakdown printing

You can force printing of the VAT breakdown at the finalize stage, regardless of whether the cash register is programmed to print or skip printing of the VAT breakdown.
Every time you want to have VAT breakdown, press <VAT>.

Example

Item 1	Dept 1	$1.00
	Taxable	1
Item 2	PLU 1	($2.00)
	Taxable	2
Payment	Cash	$3.00

OPERATION

1 00 [1]
1 [PLU]
[VAT]
[CA/AMT TEND]

RECEIPT

```
1 DEPT01    T1     ·1.00
1 PLU0001   T2     ·2.00
  TA1              ·0.90
  TX1              ·0.10
  TA2              ·1.90
  TX2              ·0.10
  TL             ·3.00
  CASH             ·3.00
```

Deposit registrations

Use the following procedures to register deposits.

Deposit from customer

Deposit	Cash	$50.00

OPERATION

5 0 00 DEPOSIT−
CA/AMT TEND

RECEIPT

```
DEPO-          ·50.00
TL            ·50.00
CASH           ·50.00
```

Deposit from customer during sales transaction

Items	Dept 1	$10.00
	Dept 2	$20.00
Deposit		$20.00
Payment	Cash	$10.00

OPERATION

1 0 00 1
2 0 00 2
2 0 00 DEPOSIT+
CA/AMT TEND

RECEIPT

```
1 DEPT01         ·10.00
1 DEPT02         ·20.00
  DEPO+          -20.00
  TL            ·10.00
  CASH           ·10.00
```

Bill copy

Example 1

To issue a copy of a bill dated February 1, 2006 in the amount of $35.00 cash.

OPERATION	RECEIPT
0 2 0 1 2 0 0 6 [BILL COPY] Enter date by date order. 3 5 00 [CA/AMT TEND]	** BILL TOP MESSAGE 1 ** ** BILL TOP MESSAGE 2 ** — Bill top message [*1] ** BILL TOP MESSAGE 3 ** ** BILL TOP MESSAGE 4 ** REG 02-01-2006 C01 MC#01 * BILL COPY MESSAGE 1 ** * BILL COPY MESSAGE 2 ** — Bill copy message [*1] * BILL COPY MESSAGE 3 ** * BILL COPY MESSAGE 4 ** TA1 ·35.00 TX1 ·3.50 — Add-on tax amount TL ·38.50 CASH ·38.50 ** BILL BTM MESSAGE 1 ** ** BILL BTM MESSAGE 2 ** — Bill bottom message [*1] ** BILL BTM MESSAGE 3 ** ** BILL BTM MESSAGE 4 **

[*1] Programmable option

Note that you can finalize this operation using the cash amount tendered key.

Example 2

To issue a copy of a bill dated February 1, 2006 in the amount of Euro 30.00 cash (sub-currency).

OPERATION	RECEIPT
0 2 0 1 2 0 0 6 [BILL COPY] [PD] 3 0 00 [CA/AMT TEND]	** BILL TOP MESSAGE 1 ** ** BILL TOP MESSAGE 2 ** — Bill top message [*1] ** BILL TOP MESSAGE 3 ** ** BILL TOP MESSAGE 4 ** REG 02-01-2006 C01 MC#01 * BILL COPY MESSAGE 1 ** * BILL COPY MESSAGE 2 ** — Bill copy message [*1] * BILL COPY MESSAGE 3 ** * BILL COPY MESSAGE 4 ** TA1 €27.28 TX1 €2.72 — Add-in tax amount TL €30.00 CASH €30.00 ** BILL BTM MESSAGE 1 ** ** BILL BTM MESSAGE 2 ** — Bill bottom message [*1] ** BILL BTM MESSAGE 3 ** ** BILL BTM MESSAGE 4 **

[*1] Programmable option

Actual stock quantity inquiry

With this operation, you can recall the actual stock quantity for PLUs and show it on the display of the cash register.

Example

To check the actual stock quantity of PLU 32 and flat-PLU 001.

OPERATION	DISPLAY (7segment)
STOCK INQ	
3 2 PLU	123.45
STOCK INQ	
001	1

Actual stock quantity are appeared.

Unit price inquiry

Use this operation to recall the unit prices of departments, PLUs, or scanning PLUs.
The unit prices appear on the display of the cash register when recalled.

Example

To check the unit price of PLU 32, flat-PLU 001, department 1.

OPERATION	DISPLAY (7 segment)
PRICE INQ	
3 2 PLU	1.45
PRICE INQ	
001	3.00
PRICE INQ	
1	14.00

Previous item void using <REVIEW>

You can correct the previously registered item(s) in the same transaction by using <REVIEW> (review key).

Example

Item 1	Dept. 1	$2.35
	Quantity	1
Item 2	Dept. 2	$2.00
	Quantity	1
Item 3	PLU 1	($1.20)preset
	Quantity	1
Corrected Item 1	Dept. 1	$2.35
	Quantity	1
Payment	Cash	$3.20

OPERATION	DISPLAY
2 3 5 [1]	1 ST ·2.35 DEPT01 2.35
2 00 [2]	2 ST ·4.35 DEPT02 2.00
1 [PLU]	3 ST ·5.55 PLU001 1.20
[REVIEW] Review the item to be corrected.	** REVIEW ** DEPT01 1 QT 2.35
	** REVIEW ** DEPT02 1 QT 2.00
[VOID] Press <VOID> to correct.	
[CA/AMT TEND]	CASH 3.20

RECEIPT

```
1 DEPT01          ·2.35   — *1
1 DEPT02          ·2.00
1 PLU0001         ·1.20
  VOID    .............   — *1
1 DEPT01          -2.35   — *1
  TL             ·3.20
  CASH            ·3.20
```

[*1] These items can be skipped by program.

Scanning PLU

Product barcodes are read by scanning with hand-held scanner, and are filed in the scanning PLU file together with the unit price, item descriptor, programming status, link department, totalizer and counter.
When a barcode is entered by scanning, or from the keyboard by using <OBR> (OBR key) or <One touch NLU> (One touch NLU key) and it has been filed in the scanning PLU file, the preset unit price is accumulated to its own totalizer and other appropriate totalizers.
Scanning PLUs include UPC-A/UPC-E/EAN-13/EAN-8, source marking, in-store marking code.

Item registration

By scanner/code input/one touch NLU key

Item 1 (scan)	Scan-PLU	($2.35)
	PLU code	49012347
Item 2 (code)	Scan-PLU	($2.00)
	PLU code	123456
Item 3 (OTN)	Scan-PLU	($1.23)
	PLU code	49012354
Payment	Cash	$5.58

OPERATION

"Scanning"

1 2 3 4 5 6 OBR

Scanning-PLU code and OBR key

NLU

One touch NLU

CA/AMT TEND

RECEIPT

```
1 Scan-PLU01      ·2.35
  #49012347
1 Scan-PLU02      ·2.00
  #123456
1 Scan-PLU03      ·1.23
  #49012354
  TL             ·5.58
  CASH            ·5.58
```

Scanning PLU code [*1]

[*1] Programmable option

Not found PLU

When a scanning PLU item which does not exist in the scanning PLU file is registered, an error occurs (Item not found error). In this case, you can input this item to the ECR and register it at the same time. After this operation, "Item not found error" does not occur during the next registration.

Item 1 (scan)	Scan-PLU	($1.00)
	PLU code	49012361
	Dept.	1
Item 2 (scan)	Scan-PLU	($1.00)
	PLU code	49012361
Payment	Cash	$2.00

OPERATION

"Scanning"

Does not exist in the scanning PLU file

"Not Found Error"

The display shows;
"Not Found PLU
Input Unit Price, and Press DEPT key"

1 0 0 1

Input price and press the linked department key.

"Scanning"

Register normally.

CA/AMT TEND

RECEIPT

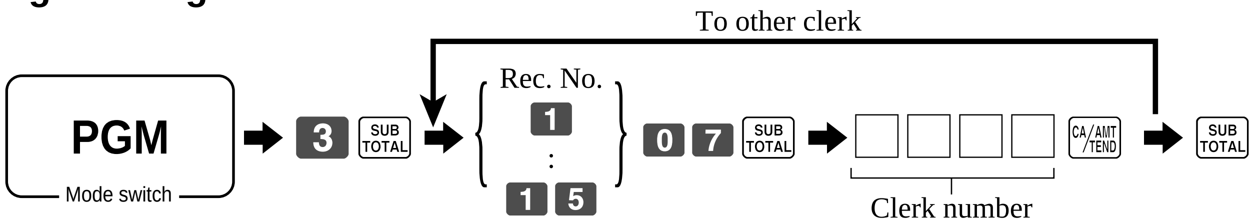
```
1 DEPT01          ·1.00
  #49012361
1 DEPT01          ·1.00
  #49012361
  TL             ·2.00
  CASH            ·2.00
```

Link department descriptor/amount

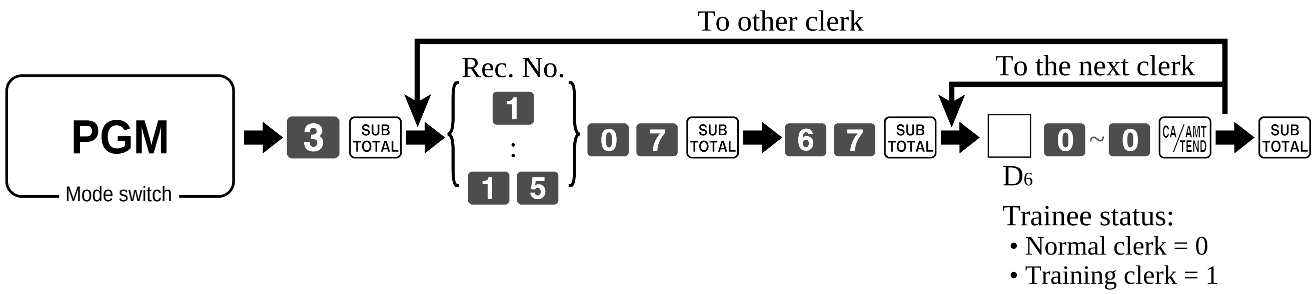
Programming to clerk

You can program up to 4-digit assigning number (clerk number), trainee status of clerk (i.e. training cashier) and commission rate for each clerk.

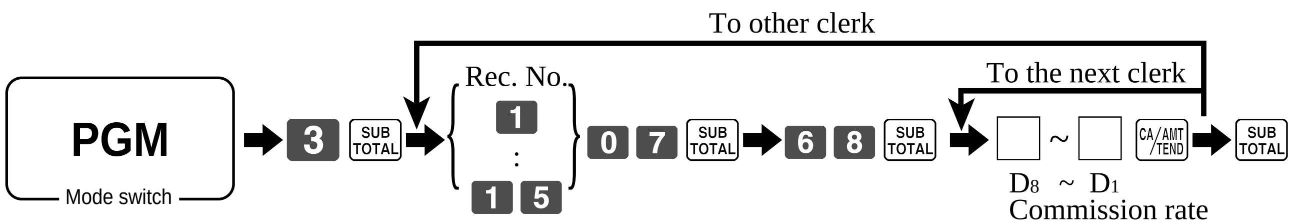
Programming clerk number



Programming trainee status



Programming commission rate



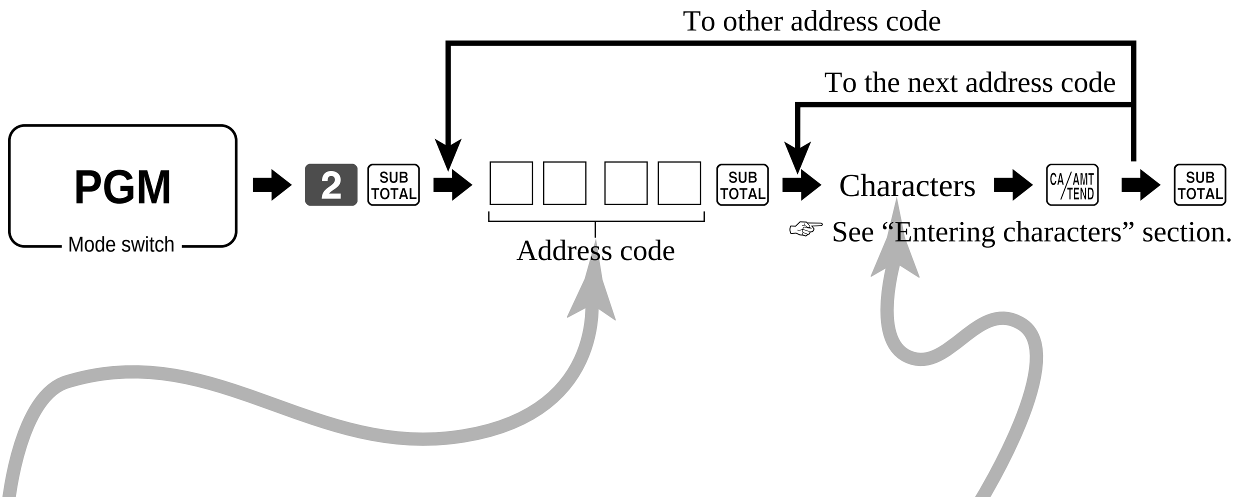
Record No.	Clerk number				Trainee status		Commission rate							
							Commission rate 1				Commission rate 2			
							Integer		Decimal		Integer		Decimal	
	D_4	D_3	D_2	D_1	D_6	00000	D_8	D_7	D_6	D_5	D_4	D_3	D_2	D_1
1						00000								
2						00000								
3						00000								
4						00000								
5						00000								
6						00000								
7						00000								
8						00000								
9						00000								
10						00000								
11						00000								
12						00000								
13						00000								
14						00000								
15						00000								

Character programming can be performed in two ways:
- **Character keyboard programming (see page 89),**
  or
- **Entering characters by code (see page 90).**

Programming descriptors and messages

The following descriptors and messages can be programmed;
- Messages (Logo, commercial and bottom message)
- Clerk name
- PLU item descriptor
- Department key descriptor
- Machine number

Programming receipt message, machine No. and clerk name



Address code	Contents	Initial character	Yours
0107	Clerk 01	C01	
0207	Clerk 02	C02	
0307	Clerk 03	C03	
0407	Clerk 04	C04	
0507	Clerk 05	C05	
0607	Clerk 06	C06	
0707	Clerk 07	C07	
0807	Clerk 08	C08	
0907	Clerk 09	C09	
1007	Clerk 10	C10	
1107	Clerk 11	C11	
1207	Clerk 12	C12	
1307	Clerk 13	C13	
1407	Clerk 14	C14	
1507	Clerk 15	C15	
0191	Machine number	MC#01	

Address code	Contents	Initial character	Yours
0132	1st line of logo message	YOUR RECEIPT	
0232	2nd line of logo message	THANK YOU	
0332	3rd line of logo message	CALL AGAIN	
0432	4th line of logo message		
0532	1st line of commercial message		
0632	2nd line of commercial message		
0732	3rd line of commercial message		
0832	4th line of commercial message		
0932	1st line of bottom message		
1032	2nd line of bottom message		
1132	3rd line of bottom message		
1232	4th line of bottom message		
1332	1st line of bill top message		
1432	2nd line of bill top message		
1532	3rd line of bill top message		
1632	4th line of bill top message		
1732	1st line of bill copy message		
1832	2nd line of bill copy message		
1932	3rd line of bill copy message		
2032	4th line of bill copy message		
2132	1st line of bill bottom message		
2232	2nd line of bill bottom message		
2332	3rd line of bill bottom message		
2432	4th line of bill bottom message		
2532	Post receipt message	DUPLICATE RECEIPT	
2632	1st line of guest intermediate msg.		
2732	2nd line of guest intermediate msg.		
2832	3rd line of guest intermediate msg.		
2932	4th line of guest intermediate msg.		
3032	1st line of guest bottom msg.		
3132	2nd line of guest bottom msg.		
3232	3rd line of guest bottom msg.		
3332	4th line of guest bottom msg.		
3432	5th line of guest bottom msg.		
3532	6th line of guest bottom msg.		
3632	7th line of guest bottom msg.		
3732	8th line of guest bottom msg.		
3832	9th line of guest bottom msg.		
3932	10th line of guest bottom msg.		
4032	1st line of Australian GST MOF msg.	TAX INVOICE	
4132	2nd line of Australian GST MOF msg.	* INDICATES	
4232	3rd line of Australian GST MOF msg.	TAXABLE SUPPLY	

Programming department/transaction key descriptor

To another department/transaction key

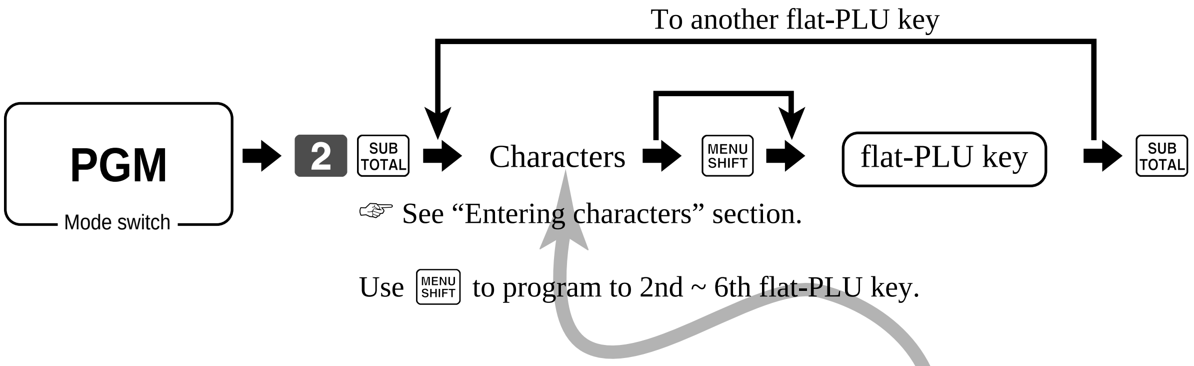
PGM (Mode switch) → 2 SUB TOTAL → Characters → Department key / Transaction key → SUB TOTAL

☞ See "Entering characters" section.

Contents	Initial character	Yours
Department 01	DEPT01	
Department 02	DEPT02	
Department 03	DEPT03	
Department 04	DEPT04	
Department 05	DEPT05	
Department 06	DEPT06	
Department 07	DEPT07	
:	:	

Contents	Initial character	Yours
Cash / Amount tendered	CASH	
Charge	CHARGE	
Check	CHECK	
Received on account	RC	
Paid out	PD	
Discount	%-	
Refund	RF	
Correction	CORR	
Receipt	RCT	
Non add / No sale	#/NS	
VAT	VAT	
Menu shift	MENU	
Subtotal	SUBTOTAL	
Receipt on / off	RCT ON/OFF	
Multiplication	X	
Two zero	00	
Decimal point	.	
Date/Time	DATE/TIME	
Help	HELP	

Programming flat-PLU descriptor



PLU No.	Contents	Initial character	Yours
001	PLU 001	PLU0001	
002	PLU 002	PLU0002	
003	PLU 003	PLU0003	
004	PLU 004	PLU0004	
005	PLU 005	PLU0005	
006	PLU 006	PLU0006	
007	PLU 007	PLU0007	
008	PLU 008	PLU0008	
009	PLU 009	PLU0009	
010	PLU 010	PLU0010	
011	PLU 011	PLU0011	
012	PLU 012	PLU0012	
013	PLU 013	PLU0013	
014	PLU 014	PLU0014	
015	PLU 015	PLU0015	
016	PLU 016	PLU0016	
017	PLU 017	PLU0017	
018	PLU 018	PLU0018	
019	PLU 019	PLU0019	
020	PLU 020	PLU0020	
021	PLU 021	PLU0021	
022	PLU 022	PLU0022	
023	PLU 023	PLU0023	
024	PLU 024	PLU0024	
025	PLU 025	PLU0025	
026	PLU 026	PLU0026	
027	PLU 027	PLU0027	
028	PLU 028	PLU0028	
029	PLU 029	PLU0029	
030	PLU 030	PLU0030	
031	PLU 031	PLU0031	
032	PLU 032	PLU0032	
033	PLU 033	PLU0033	
034	PLU 034	PLU0034	
035	PLU 035	PLU0035	

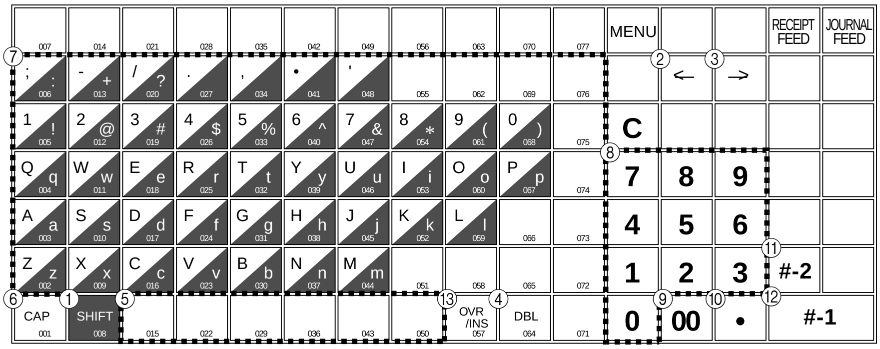
Entering characters

In this section, the method to enter descriptors or messages (characters) to the cash register during programming is described.
Characters are specified by character keyboard or by codes. In the first half of this section, the usage of character keyboard is described. In the latter half, inputting method by character code is described.

Using character keyboard

Example:

Input " A p p l e J u i c e ",
enter "DBL""A" "SHIFT""p" "p" "l" "e" "SPACE" "CAP""J" "SHIFT""u" "i" "c" "e" 00 .



① **Shift key**
Press this key to shift the following characters from the uppercase letter to lowercase letter and returns to the uppercase letter in sequence.

② **Left cursor key**
Press this key to shift the character setting position to the left one by one. This key is used to correct already entered characters.

③ **Right cursor key**
Press this key to shift the character setting position to the right one by one. This key is used to correct already entered characters.

④ **Double size letter key**
Press this key to specify that the next character you input to a double size character.

⑤ **Space key**
Press this key to set a space.

⑥ **CAP key**
Press this key to shift the character to the uppercase letter.

⑦ **Alphabet keys**
Press these keys to input characters.

⑧ **Numeric keys**
Press these keys to enter program codes, memory number and character codes.

⑨ **Character fixed key**
Press this key to enter when the alphabetic entry for a descriptor, name or message has been completed.

⑩ **Backspace/Character code fixed key**
Press this key to register one character with code (2 or 3 digit).
It clears the last input character, much like a back space key. (Does not clear the double size letter key entry.)

⑪ **Program end key**
Press this key to terminate the character programming.

⑫ **Character enter key**
Press this key to register the programmed characters.

⑬ **Insert/Override key**
Press this key to change the status "Insert" between the original characters or "Override" the original characters.

Entering characters by code

Every time you enter a character, choose character codes by the character code list (below) and press the [•] key to settle it. After you complete entering characters, press the [00] key to fix them.

Example:

Input " A p p l e J u i c e ",
enter " 255 [•] 65 [•] 112 [•] 112 [•] 108 [•] 101 [•] 32 [•] 74 [•] 117 [•] 105 [•] 99 [•] 101 [•] [00] "

Character code list

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
Space	32	0	48	@	64	P	80	'	96	p	112	Ç	128
!	33	1	49	A	65	Q	81	a	97	q	113	ü	129
"	34	2	50	B	66	R	82	b	98	r	114	é	130
#	35	3	51	C	67	S	83	c	99	s	115	â	131
$	36	4	52	D	68	T	84	d	100	t	116	ä	132
%	37	5	53	E	69	U	85	e	101	u	117	à	133
&	38	6	54	F	70	V	86	f	102	v	118	å	134
'	39	7	55	G	71	W	87	g	103	w	119	ç	135
(	40	8	56	H	72	X	88	h	104	x	120	ê	136
)	41	9	57	I	73	Y	89	i	105	y	121	ë	137
*	42	:	58	J	74	Z	90	j	106	z	122	è	138
+	43	;	59	K	75	[	91	k	107	{	123	ï	139
,	44	<	60	L	76	\	92	l	108	|	124	î	140
-	45	=	61	M	77	]	93	m	109	}	125	ì	141
.	46	>	62	N	78	^	94	n	110	~	126	Ä	142
/	47	?	63	O	79	_	95	o	111		127	Å	143

Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code	Chara	Code
É	144	á	160	░	176	└	192	ð	208	Ó	224	-	240
æ	145	í	161	▒	177	┴	193	Ð	209	ß	225	±	241
Æ	146	ó	162	▓	178	┬	194	Ê	210	Ô	226	_	242
ô	147	ú	163	│	179	├	195	Ë	211	Ò	227	3/4	243
ö	148	ñ	164	┤	180	─	196	È	212	õ	228	¶	244
ò	149	Ñ	165	Á	181	┼	197	€	213	Õ	229	§	245
û	150	ª	166	Â	182	ã	198	Í	214	µ	230	÷	246
ù	151	º	167	À	183	Ã	199	Î	215	þ	231	¸	247
ÿ	152	¿	168	©	184	╚	200	Ï	216	Þ	232	°	248
Ö	153	®	169	╣	185	╔	201	┘	217	Ú	233	¨	249
Ü	154	¬	170	║	186	╩	202	┌	218	Û	234	•	250
ø	155	1/2	171	╗	187	╦	203	█	219	Ù	235	¹	251
£	156	1/4	172	╝	188	╠	204	▄	220	ý	236	³	252
Ø	157	¡	173	¢	189	═	205	¦	221	Ý	237	²	253
×	158	«	174	¥	190	╬	206	Ì	222	¯	238	■	254
ƒ	159	»	175	┐	191	¤	207	▀	223	´	239	Double size	255

Editing characters

Correcting a character just entered

	OPERATION	DISPLAY (dot)
"L" "E" "N" "O" "N"	⇦Enter LENON, instead of LEMON.	LENON ■ A
← ← ←	⇦Press left arrow key three times.	LENON A
INS/OVR	⇦Override mode	LENON * A
"M"	⇦Enter "M".	LEMON * A

"*" means "OVR" mode.

Correcting and adding a PLU descriptor already set

	OPERATION	DISPLAY (dot)
00	⇦Enter "00".	
1 5 PLU	⇦Enter PLU No.	lemon A
"S" "o" "d" "a" " "	⇦Enter "Soda" and "space".	Soda lemon a
INS/OVR	⇦Override mode	Soda lemon * a
"L"	⇦Enter "L".	Soda Lemon * A

Correcting a key descriptor already set

	OPERATION	DISPLAY (dot)
00	⇦Enter "00".	
1	⇦Designate an appropriate key.	LENON A
→ →	⇦Press right arrow key two times.	LENON A
"M"	⇦Enter "M".	LEMNON A
•	⇦Delete "N".	LEMON A

Correcting a message descriptor already set

	OPERATION	DISPLAY (dot)
0 1 0 1 SUB TOTAL	⇦Enter record and file number.	GRASS A
→ →	⇦Press right arrow key two times.	GRASS A
"O"	⇦Enter "O".	GROASS A
•	⇦Delete "A".	GROSS A

Advanced Operations

Printing read/reset reports

• Daily sales read report ("X1" mode)

You can print read reports at any time during the business day without affecting the data stored in the cash register's memory.

• Daily sales reset report ("Z1" mode)

You should print reset reports at the end of the business day.

Important!

- The reset operation issues a report and also clears all sales data from the cash register's memory.
- Be sure to perform the reset operations at the end of each business day. Otherwise, you will not be able to distinguish between the sales data for different dates.

To print the individual department, PLU/flat-PLU read report

This report shows sales for specific departments or PLUs/flat-PLUs.

OPERATION

X1 (Mode switch)

- Specifying a department
  [1], [2], [3] ~
- Specifying a PLU
  1 [PLU] ~
- Specifying a flat-PLU
  [001], [002] ~

[SUB TOTAL]

REPORT

```
X     03-06-2000 19:00        — Mode/date/time
C01       MC#01     000532    — Clerk/Mc No./consecutive No.

X    INDIVIDUAL               — Read symbol/report title

DEPT01               38       — Department Name/No. of items
   8.13%         ·257.53      — Sales ratio/amount
 OLD PRC           ·2.21      — Old price amount
 RED PRC           ·4.18      — Red price amount
 DISCOUNT          ·5.80      — Discount amount
PLU0001              17       — PLU Name/No. of items
   0.53%          ·17.00      — Sales ratio/PLU amount
 OLD PRC           ·0.00      — Old price amount
 RED PRC           ·2.18      — Red price amount
 DISCOUNT          ·2.50      — Discount amount
 #000123                      — PLU random code
------------------------
TL                 88.61      — Total No. of items
                 ·516.10      — Total amount
 RED PRC          ·12.18      — Red amount total
 DISCOUNT          ·9.50      — Discount amount total
```

After you finish to select items, press [SUB TOTAL] to terminate.

To print the financial read report

This report shows gross sales, net sales, cash in drawer and check in drawer.

OPERATION / **REPORT**

X1 — Mode switch

↓

Money declaration *1

- Main currency:
  (Cash in drawer amount [#], [#/NS] or [NS])
- Sub currency:
  ([PD] cash in drawer amount [#], [#/NS] or [NS])

↓

[X]

Report		
X FLASH		Read symbol/report title
	0000071	Command code
DECLA	·6,919.04	Declared cash in drawer of main currency *1
	·0.00	Difference (= declared - accumulated) *1
EURO money	€187.67	Declared cash in drawer of sub currency *1
	-10.87	Difference (= declared - accumulated) *1
GROSS	111.15	Gross No. of items
	·7,054.14	Gross amount
NET	No 120	Net No. of customers
	·7,263.20	Net amount
CAID	·6,919.04	Cash in drawer of main currency
	€178.60	Cash in drawer of sub currency

To print the individual clerk read/reset report

This report shows individual clerk totals.

OPERATION / **REPORT**

X1/Z1 (read/reset) — Mode switch

↓

Money declaration *1

- Main currency:
  (Cash in drawer amount [#], [#/NS] or [NS])
- Sub currency:
  ([PD] cash in drawer amount [#], [#/NS] or [NS])

↓

2 0 0 1 7 [CA/AMT TEND]

↓

□□□□ [CA/AMT TEND]
Enter the appricable clerk number.

↓

[SUB TOTAL]

After you finish to select clerks, press [SUB TOTAL] to terminate.

Report		
Z CASHIER		Read symbol/report title
	0020017	Command code
DECLA	·6,919.04	Declared cash in drawer of main currency *1
	·0.00	Difference (= declared - accumulated) *1
EURO money	€187.67	Declared cash in drawer of sub currency *1
	-10.87	Difference (= declared - accumulated) *1
C01	1	Clerk name/drawer No.
GROSS	421.25	Gross total
	·2,872.28	
NET	No 111	Net total
	·1,845.35	
CAID	·1,057.14	Cash in drawer
CHID	·139.04	
RF	No 1	Refund mode
	·1.00	
CLEAR	No 5	Clear key count
	·4.43	
C02	1	Clerk name/drawer No.

*1 Money declaration:
Count how much cash is in the drawer and input this amount (up to 10 digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming, you cannot skip this procedure.

To print the daily sales read/reset report

This report shows sales except for PLUs.

OPERATION | **REPORT**

X1/Z1 (read/reset) Mode switch

↓

Money declaration *1

- Main currency:
  (Cash in drawer amount [#], [#/NS] or [NS])
- Sub currency:
  ([PD] cash in drawer amount [#], [#/NS] or [NS])

↓

[CA/AMT TEND]

Report line			Description
Z BATCH 01			Report title
Z FIX		0001	Fixed total report title/reset counter *4
		0001011	Report code
DECLA		·6,919.04	Declared cash in drawer of main currency *1
		·0.00	Difference (= declared - accumulated) *1
EURO money		€187.67	Declared cash in drawer of sub currency *1
		-10.87	Difference (= declared - accumulated) *1
GROSS		981.25	
		·6,574.40	Gross total *3
NET	No	111	
		·7,057.14	Net total *3
CAID		·6,919.04	Cash in drawer *3
CHID		·139.04	Charge in drawer *3
CKID		·859.85	Check in drawer *3
CRID(1)		·709.85	Credit in drawer *3
RF	No	3	
		·10.22	Refund mode *3
CUST	CT	111	Customer number *3
AVRG		·63.57	Average sales per customer *3
DC		·1.22	Discount total *3
REF		·2.42	Refund key *3
CLEAR	No	85	Clear key count *3
ROUND		·0.00	Rounding total *3
CANCEL	No	2	
		·12.97	Cancellation *3
TA1		·2,369.69	Taxable 1 amount *3
TX1		·128.86	Tax 1 amount *3
TA2		·2,172.96	Taxable 2 amount *3
TX2		·217.33	Tax 2 amount *3
GT1		·00000000125478.96	Grand total 1 *3
GT2		·00000000346284.23	Grand total 2 *3
GT3		·00000000123212.75	Grand total 3 *3

```
Z    TRANS          0001  — Function key report title/reset counter
                 0001012  — Report code
CASH        No    362
               ·1,638.04  — Function key count/amount *2
CHARGE      No    56
               ·1,174.85
RC          No     4
                 ·810.00
PD          No     5
                 ·520.00

CORR        No    14
                  ·39.55
VLD         No    19
RCT         No     3
NS          No     5
------------------------
Z    DEPT           0001  — Department report title/reset counter
                 0001015  — Report code

DEPT01             38     — Department name/No. of items *2
   8.13%         ·257.53  — Sales ratio/amount *2
 OLD PRC           ·2.21  — Old price amount *2
 RED PRC           ·4.18  — Red price amount *2
 DISCOUNT          ·5.80  — Discount amount *2
DEPT02            183
               ·1,362.26

 RED PRC
 DISCOUNT         ·17.22
------------------------
TL                88.61   — Total No. of items
               ·1,916.10  — Total amount
 RED PRC          ·12.18  — Red amount total
 DISCOUNT          ·9.50  — Discount amount total
------------------------
Z    CASHIER        0001  — Clerk report title/reset counter
                 0001017  — Report code

C01         ...........1  — Clerk name/drawer No.
GROSS            421.25
               ·2,872.28  — Gross total
NET         No    111
               ·1,845.35  — Net total
CAID           ·1,057.14  — Cash in drawer
CHID             ·139.04
RF          No     1
                   ·1.00  — Refund mode
CLEAR       No     5
                   ·4.43  — Clear key count

C02         ...........1  — Clerk name/drawer No.
```

*1 Money declaration:
Count how much cash is in the drawer and input this amount (up to 10 digits).
The cash register will automatically compare the input with the cash in drawer in the memory and print the difference between these two amounts.
Note that if money declaration is required by programming, you cannot skip this procedure.

*2 Zero totalled departments/functions (the amount and item numbers are both zero) are not printed.

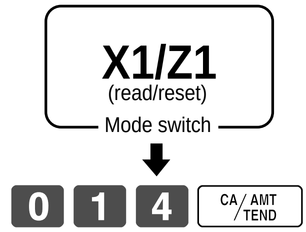
*3 These items can be skipped by programming.

*4 The "∗" symbol is printed on the reset report, memory overflow occurred in the counter/totalizer.

To print the PLU/flat-PLU read/reset report

This report shows sales for PLUs.

OPERATION **REPORT**



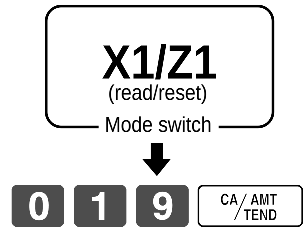

```
X     PLU                       — Read symbol/report title
                   0000014      — Report code

PLU0001             17          — PLU name/No. of items
     0.53%       ·17.00         — Sales ratio/PLU amount
 OLD PRC          ·0.00         — Old price amount
 RED PRC          ·2.18         — Red price amount
 DISCOUNT         ·2.50         — Discount amount
 #000001                        — PLU random code
PLU0100             42
     4.03%       ·69.00
 OLD PRC          ·0.00
 RED PRC          ·5.18
 DISCOUNT         ·0.50
 #000100
------------------------
TL              188.61          — Total No. of items
                ·516.10         — Total amount
 RED PRC         ·12.18         — Red amount total
 DISCOUNT         ·9.50         — Discount amount total
```

To print the hourly sales read/reset report

This report shows hourly breakdowns of sales.

OPERATION **REPORT**



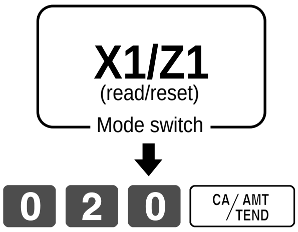

```
X     HOURLY                    — Read symbol/report title
                   0000019      — Report code

00:00->01:00                    — Time range
             CT      1          — No. of customers
GROSS             ·1.10         — Gross sales amount
NET          No      1          — No. of receipt
    1.90%         ·1.20         — Sales ratio/net sales amount
23:00->00:00
             CT      1
GROSS             ·3.45
NET          No      1
    3.90%         ·3.59
------------------------
TL           CT    280          — Total No. of customers
GROSS        ·1,937.61          — Gross total amount
NET          No     25          — Total No. of receipt
             ·2,096.80          — Net total amount
```

To print the monthly sales read/reset report

This report shows monthly breakdowns of sales.

OPERATION / **REPORT**




```
X    MONTHLY
               0000020

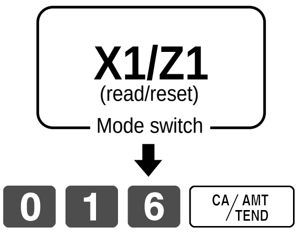
  1......
GROSS          1236.76
             ·12,202.57
NET        No    214
             ·12,202.57
31......
GROSS           2132
             ·14,187.57
NET        No    205
             ·13,398.76
-------------------------
TL
GROSS          9746.63
            ·161,022.49
                 ·16.52
NET        No   2351
            ·161,022.49
                 ·68.49
```

- Read symbol/report title
- Report code
- Date of a month
- Gross symbol/No. of items
- Gross sales amount
- Net symbol/No. of customers
- Net sales amount
- Total symbol
- Gross symbol/No. of items
- Gross sales amount
- Average daily gross sales
- Net symbol/No. of customers
- Net sales amount
- Average daily net sales

To print the group read/reset report

This report shows PLU/department group totals.

OPERATION / **REPORT**




```
X    GROUP
               0000016

GROUP01         203.25
  33.87%     ·1,108.54
GROUP02         183
  40.58%     ·1,327.80
GROUP03          12
                ·13.25
GROUP99
   0.54%        ·17.80
-------------------------
TL              862
             ·3,272.00
```

- Read symbol/report title
- Report code
- Group No./No. of items
- Sales ratio/group amount
- Group total No. of items
- Group total amount

Advanced Operations

• Periodic sales read report (“X2” mode)

You can print read reports at any time during the business day without affecting the data stored in the cash register's memory.

• Periodic sales reset report (“Z2” mode)

You should print reset reports at the end of the business day.

To print the periodic 1/2 sales read/reset reports

These reports show sales breakdowns of sales by any two kinds of period you want.

OPERATION

X2/Z2 (read/reset)
Mode switch
↓
1 CA/AMT TEND

REPORT

```
------------------------
ZZ1  BATCH 02                  — Report title
------------------------
ZZ1  FIX              0001     — Fixed total report title/reset counter
                   0001111     — Report code

GROSS               981.25
                 ·6,574.40     — Gross total *2
NET          No     111
                 ·7,057.14     — Net total *2
CAID             ·6,919.04     — Cash in drawer *2
CHID               ·139.04     — Charge in drawer *2
CKID               ·859.85     — Check in drawer *2
CRID(1)            ·709.85     — Credit in drawer *2
------------------------
RF           No       3
                    ·10.22     — Refund mode *2
CUST         CT     111        — Customer number *2
AVRG                ·63.57     — Average sales per customer *2
DC                   ·1.22     — Discount total *2
REF                  ·2.42     — Refund key *2
CLEAR        No      85        — Clear key count *2
ROUND                ·0.00     — Rounding total *2
CANCEL       No       2
                    ·12.97     — Cancellation *2
------------------------
TA1              ·2,369.69     — Taxable 1 amount *2
TX1                ·128.86     — Tax 1 amount *2
TA2              ·2,172.96     — Taxable 2 amount *2
TX2                ·217.33     — Tax 2 amount *2
------------------------
ZZ1  TRANS            0001     — Function key report title/reset counter
                   0001112     — Report code
CASH         No     362
                 ·1,638.04     — Function key count/amount *1
CHARGE       No      56
                 ·1,174.85
RC           No       4
                   ·810.00
PD           No       5
                     ·5.00
CORR         No      14
                    ·39.55
VLD          No      19
RCT          No       3
NS           No       5
------------------------
```

Receipt	Description
ZZ1 DEPT 0001	Department report title/reset counter
0001115	Report code
DEPT01 38	Department Name/No. of items *1
8.13% ·257.53	Sales ratio/amount *1
OLD PRC ·2.21	Old price amount *1
RED PRC ·4.18	Red price amount *1
DISCOUNT ·5.80	Discount amount *1
DEPT02 183	
·1,362.26	
RED PRC ·123.21	
DISCOUNT [illegible]	

TL 88.61	Total No. of items
·1,916.10	Total amount
RED PRC ·12.18	Red amount total
DISCOUNT ·9.50	Discount amount total

ZZ1 CASHIER 0001	Clerk report title/reset counter
0001117	Report code
C01 1	Clerk name/drawer No.
GROSS 421.25 ·2,872.28	Gross total
NET No 111 ·1,845.35	Net total
CAID ·1,057.14	Cash in drawer
CHID ·139.04	
RF No 1 ·1.00	Refund mode
CLEAR No 5 ·4.43	Clear key count
C02 1	Clerk name/drawer No.

*1 Zero totalled departments/functions (the amount and item numbers are both zero) are not printed.

*2 These items can be skipped by programming.

To print other sales read/reset reports

The following reports can be issued.

Procedure

X1/Z1 X2/Z2 (read/reset) Mode switch → Money declaration (if necessary) → □□ ~ □□ CA/AMT TEND (Command code)

Report/command code list

Report name	Command code # = 0 (read) # = 1 (reset)		
	Daily	Periodic 1	Periodic 2
Fix totalizer	11	#111	#211
Transaction key	12	#112	#212
PLU by record number (all) *	14	#114	#214
all PLU by random code *	14	#114	#214
by group	1000014	100#114	100#214
by department	2000014	200#114	200#214
individual by group	1020014	102#114	102#214
individual by department	2020014	202#114	202#214
range by record number *	10014	1#114	1#214
range by random code *	10014	1#114	1#214
best 50 (amount order)	60014	60114	60214
best 50 (quantity order)	70014	70114	70214
menu (1st)	81	#181	#281
menu (2nd)	82	#182	#282
menu (3rd)	83	#183	#283
menu (4th)	84	#184	#284
menu (5th)	85	#185	#285
menu (6th)	86	#186	#286
PLU stock all PLU by record number *	64	-----	-----
all by random PLU code *	64	-----	-----
by group	1000064	-----	-----
by department	2000064	-----	-----
individual by group	1020064	-----	-----
individual by department	2020064	-----	-----
range by record number *	10064	-----	-----
range by random code *	10064	-----	-----

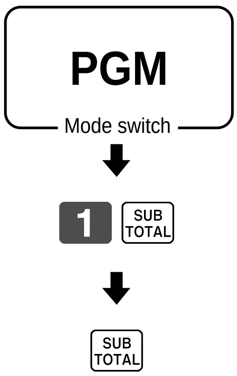
Report name	Command code # = 0 (read) # = 1 (reset)		
	Daily	Periodic 1	Periodic 2
Department	15	#115	#215
best 50 (amount order)	60015	60115	60215
best 50 (quantity order)	70015	70115	70215
Group	16	#116	#216
Clerk	17	#117	#217
individual	20017	2#117	2#217
Hourly sales	19	#119	#219
Monthly sales	20	#120	#220
Open check	25	-----	-----
total	40025	-----	-----
Scanning PLU by range department (all)	26	-----	-----
by range group	1000026	-----	-----
by range department	2000026	-----	-----
best 50 by range department	80026	-----	-----
inactive item by range department	90026	-----	-----
Scanning PLU stock by range department (all)	65	-----	-----
by range group	1000065	-----	-----
by range department	2000065	-----	-----
Table analysis	28	#128	#228
Mix & match	61	#161	#261
Financial	71	-----	-----
Individual (item / transaction key)	No code	-----	-----
PLU reset (no report)	50014	51114	51214
Scanning PLU reset (no report)	50026	-----	-----
Scanning PLU stock reset (no report)	50065	-----	-----

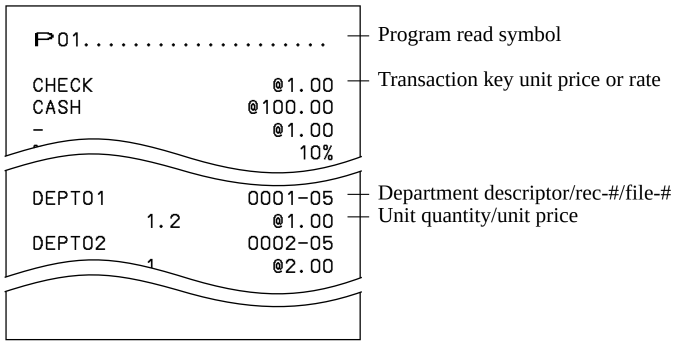
* You can choose by record number / random code by program.

Reading the cash register's program

To print unit price/rate program (except PLU/scanning PLU)

OPERATION | **REPORT**

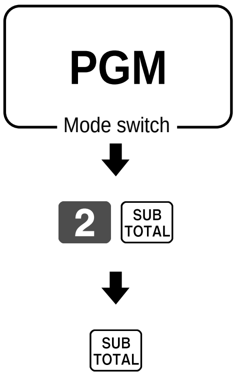




Advanced Operations

To print key descriptor, name, message program (except PLU)

OPERATION | **REPORT**




```
P02....................        — Program read symbol

GROSS             0001-01
NET               0002-01      — Fix total character
CAID              0003-01
                  0004-01

CHECK             0001-02
CREDIT2           0002-02      — Transaction key character
                  0003-02

DEPT01            0001-05
DEPT02            0002-05      — Department character
                  0003-05

GROUP01           0001-06
GROUP02           0002-06      — Group character
                  0003-06

C01               0001-07
C02               0002-07      — Clerk character
                  0003-07

TBL01             0001-18
TBL02             0002-18      — Table character
                  0003-18

GT1               0001-20
GT2               0002-20
                  0003-20

 · @No/  **  €    0001-23
NoCT @LB *QT      0002-23      — Special character
X     BUSY        0003-23
```

```
FIX               0001-24
TRANS             0002-24
                  0003-24      — Report header character

BATCH 01          0001-29
BATCH 02          0002-29      — Batch X/Z character
                  0003-29

0001-32
YOUR  RECEIPT
0002-32                        — Receipt message
      YOU

0001-33
***ENDORSE MESSAGE******
****************               — Check endorsement message
0002-33

0001-34
***SLIP MESSAGE*********
*****************              — Slip/external printer message

0001-39
CHARACTER RECALL********
****************               — Recall character

MC#01             0001-91      — Terminal connection table character

0001-96
AT COMMAND*************
**********************
****************               — AT command
0002-96
ATA            ATI4

PASSWORD          0001-97      — Online password
```

To print the PLU/flat-PLU program

OPERATION

PGM — Mode switch

↓

6 SUB TOTAL

↓

1 0 4 SUB TOTAL (PLU unit price read)

/

3 0 4 SUB TOTAL (PLU program read)

↓

□□□□□□ PLU start No.

↓ If skipped, starts from PLU1.

CA/AMT TEND

↓

□□□□□□ PLU end No.

↓ If skipped, ends the last PLU.

CA/AMT TEND

↓

CA/AMT TEND

REPORT

```
P01....................      — Program read symbol

    #000001 - #999999        — Read range
PLU0001            0001-04   — Item character/rec-#/file-#
                   #000001   — Random code
         1.2         @1.00   — Unit quantity/unit price
PLU0002            0002-04
                   #000002
         1           @2.00

P03....................      — Program read symbol

    #000001 - #999999        — Read range
PLU0001            0001-04   — Item character/rec-#/file-#
          00000000000000     — Batch program 01 ~ 1066, 18 ~ 1966
 11-66                0000   — Batch program 1166
 12-66             #000001   — Batch program 1266
 13-66        <-   0001-28   — Batch program 1366
 14-66                   0   — Batch program 1466
 15-66            @1234.56   — Batch program 1566
PLU0002            0002-04
          00000000000000
 11-66              000000
```

This section describes what to do when you have problems with operation.

When an error occurs

Errors are indicated by an error codes. When this happens, you can usually find out what the problem is as illustrated below.

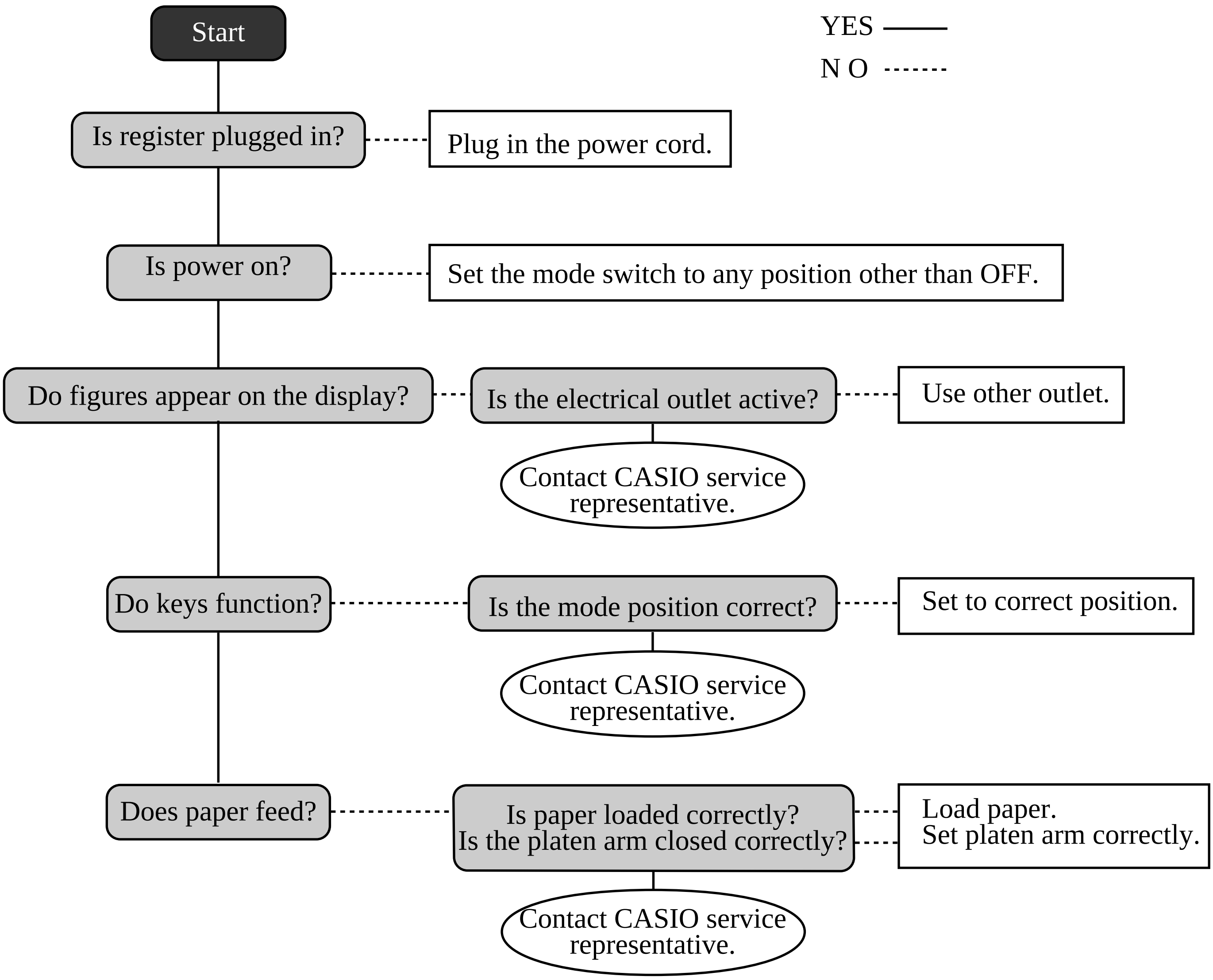
Press [C] and check the appropriate section of this manual for the operation you want to perform.

Error code	Message	Meaning	Action
E001	Wrong mode	Mode switch position changed before finalization.	Return the mode switch to its original setting and finalize the operation.
E003	Wrong operator	Clerk button pressed before finalization of a registration being performed under another clerk button. The signed on clerk differs from the clerk performed the tracking check registration.	Press the original clerk button and finalize the transaction before pressing another clerk button. Input correct check number or assign the proper clerk number.
E004	Error INIT/FC	Initialization or unit lock clear operation in progress.	Complete operation.
E005	Insufficient memory	Memory allocation exceeds total memory capacity.	Reallocate memory or expand memory (if possible).
E008	Please sign on	Registration without entering a clerk number.	Enter a clerk number.
E009	Enter password	Operation without entering the password.	Enter password.
E010	Close the drawer	The drawer is left open longer than the program time (drawer open alarm).	Close the drawer.
E011	Close the drawer	Attempt to register while the cash drawer is open.	Shut the cash drawer.
E016	Change back to REG mode	Two consecutive transactions attempted in the refund mode.	Switch to another mode and then back to the RF mode for the next transaction.
E017	Enter CHK/TBL number	Attempt made to register an item without inputting a check number.	Input a check number.
E018	Enter Table number	Attempt made to register an item without inputting a table number.	Input a table number.
E019	Enter number of customers	Finalize operation attempted without entering the number of customer.	Enter the number of customer.
E021	No DEPT Link	No department linked PLU is registered.	Correct the program.
E023	Stock shortage	Actual stock quantity becomes less than the minimum stock quantity.	Perform stock maintenance.
E024	No stock	Actual stock quantity becomes/is negative.	Perform stock maintenance.
E026	Enter condiment/ preparation PLU	No condiment/preparation PLU is registered.	Register condiment/preparation PLU.
E029	In the tender operation	Item registration is prohibited, while partial tender.	Finalize the transaction.
E030	Press RATE TAX key	Finalization of a transaction attempted without registering rate-tax.	Register <RATE TAX>.
E031	Press ST key	Finalization of a transaction attempted without confirming the subtotal.	Press <SUBTOTAL>.
E032	Press FSST key	Finalization of a transaction attempted without confirming of the food stamp subtotal.	Press <FS/ST>.
E033	Enter tendered amount	Finalize operation attempted without entering amount tender.	Enter the amount tendered.
E035	Change amount exceeds limit	Change amount exceeds preset limit.	Input amount tendered again.
E036	Remove money from the drawer	Contents of the drawer exceed programmed limit.	Perform pick up operation.
E037	Digit or amount limitation over	High amount lock out/low digit lock out error	Enter correct amount.
E038	Perform money declaration	Read/reset operation without declaring cash in drawer. This error appears only when this function is activated.	Perform money declaration.
E040	Issue guest receipt	Attempt to register a new transaction without issuing a guest receipt.	Issue a guest receipt.
E041	Print validation	Attempt to register a new transaction without validation.	Perform validation operation.
E042	Insert VLD paper and retry	Validation paper (slip printer) has run out.	Insert new validation paper.
E044	Print Cheque	Attempt to register a new transaction without printing check.	Perform check print.
E045	Print Check Endorsement	Attempt to register a new transaction without printing check endorsement.	Perform check endorsement.
E046	REG buffer full	Registration buffer full.	Finalize the transaction.
E047	Print bill	Separate check buffer full.	Allocate sufficient separate check buffer.
E048	Insert slip paper	Attempt to register a new transaction without printing slip.	Perform slip printing operation.

Error code	Message	Meaning	Action
	and retry	No paper is inserted or paper is out in the slip printer.	Insert new slip paper.
E049	CHECK memory full	Check tracking index memory full.	Finalize and close the check number currently used.
E050	DETAIL memory full	Check tracking detail memory full.	Finalize and close the check number currently used.
E051	CHK/TBL No. is occu-pied	Attempt to made use <New Check> to open a new check using a number that is already used for an existing check in check tracking memory.	Finalize and close the check that is currently under the number that you want to use or use a different check number.
E052	CHK/TBL No. is busy	Attempt to use the same check number whilst the specified number is being used in the other terminal.	Use another check number or close the check at that terminal.
E053	CHK/TBL No. is not opened	Attempt made to use <Old Check> reopen a new check using a number that is not used for an existing check in check tracking memory.	Use the correct check number (if you want to reopen a check that already exists in check tracking memory) or use <New Check> to open a new check.
E054	Out of CHK/TBL No. range	Check number range over.	Enter correct number.
E055	In the SEP CHK opera-tion	Normal registration is prohibited during separate check operation.	Terminate separate check operation.
E056	CHK range full	All check number are occupied in range.	Recall the stored data.
E059	Press EAT-IN or TAKE-OUT key	Attempt to finalize a transaction without specifying <EAT-IN> or <TAKE-OUT>.	Press <EAT-IN> or <TAKE-OUT>.
E060	Printer offline	External printer offline	
E061	Printer error	External printer went down.	
E062	Printer paper end	External printer paper end	Replace new paper.
E064	Print buffer full	Printing buffer full	
E066	Print from the begin-ning of the transac-tion	Attempt to print the last separated transaction on slip.	Print from the beginning of the transaction
E075	Negative balance cannot be finalized	Attempt to finalize a transaction when balance is less than or equal to zero.	Register item(s) until the balance becomes positive amount.
E085	Data exist in con-solidation file	Data exists in the consolidation file.	Clear the data.
E100	Operate at the master terminal	Prohibit master operation.	Perform it at master terminal.
E101	PLU maintenance file full. Press <#2> to exit	Scanning PLU direct maintenance/batch maintenance file becomes full.	Terminate the maintenance.
E103	PLU Code is not exist. Input the PLU Code	PLU code is not existed in the file.	Enter proper PLU code.
E105	PLU file full	Scanning PLU/not found PLU file full	Modify the designated item.
E106	Item exists in the PLU FILE	The designated item has already existed in the scanning PLU file.	
E112	Close the journal platen arm	The journal platen arm is opened.	Close the journal platen arm.
E114	Close the receipt platen arm	The receipt platen arm is opened.	Close the receipt platen arm.
E139	Negative balance is not allowed	Attempt to register <–> or <CPN> when the balance becomes negative.	Enter proper minus/coupon amount.
E146	Arrangement file full	Arrangement file is full.	Set the arrangement properly.
E164	Employee No. is not Found in the Employee File	Attempt to enter a wrong employee number which is not set to the employee file.	Enter proper employee number.
E165	Employee No. is not Clocking-in.	Attempt to clock out the employee who is not clocked in.	Enter proper employee number.
E166	Employee No. is Occupied	Attempt to clock in the employee who has clocked in already.	Enter proper employee number.
E176	Time&Attendance file full	Time and attendance file becomes full.	Delete unused employee number or reallocate the time and attendance file.
E200	Insert CF card	No CF card is set.	Set CF card.
E201	Illegal Format	Illegally formatted CF card	Format the CF card.
E202	File not found	The designated file is not found in the CF card.	Enter proper file name.
E203	Insufficient memory	Insufficient memory in the CF card.	Use a vacant (formatted) CF card.
E205	File already exist.	Can not write, because designated file has already been in the CF card.	Check the operation and retry.

When the register does not operate at all

Perform the following check whenever the cash register enter an error condition as soon as you switch it on. The results of this check are required by service personnel, so be sure to perform this check before you contact a CASIO representative for servicing.



Clearing a machine lock up

If you make a mistake in operation, the cash register may lock up to avoid damage to programs and preset data. Should it happens, you can use the following procedure to clear the lock up without losing any data.

1 Power off the register.
2 Insert the PGM key (U.K.) or the OW key (other area) in the mode switch.
3 Press down [RECEIPT FEED], and turn the mode switch to PGM mode.
4 The display shows ten Fs, then release [RECEIPT FEED].
5 Press [SUB TOTAL]. The display shows ten Fs and issue a receipt.

Important!

• If the register does not show ten Fs, never press [SUB TOTAL] and call service representative.

In case of power failure

If the power supply to the cash register is cut by a power failure or any other reason, simply wait for power to be restored. The details of any on-going transaction as well as all sales data in memory are protected by the memory backup batteries.

- Power failure during a registration
  The subtotal for items registered up to the power failure is retained in memory. You will be able to continue with the registration when power is restored.
- Power failure during printing a read/reset report
  The data already printed before the power failure is retained in memory. You will be able to issue a report when power is restored.
- Power failure during printing of a receipt and the journal
  Printing will resume after power is restored. A line that was being printed when the power failure occurred is printed in full.
- Other
  The power failure symbol is printed and any item that was being printed when the power failure occurred is reprinted in full.

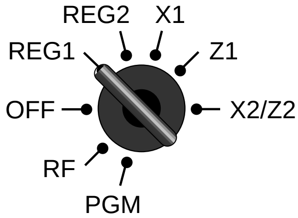
Notes

The memory protection battery is constantly charging and discharging as you switch the cash register on and off during normal operations. This causes the capacity of the battery to decrease after approximately five years of use.

Important !

- Remember a weak battery has the potential of losing valuable transaction data.
- A label on the back of the cash register shows the normal service period of the battery installed in your cash register.
- Have the battery replaced by your dealer within the period noted on this label.

To replace journal paper





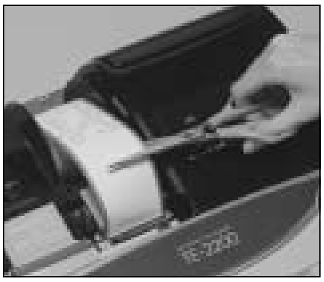
Step 1

Set the mode switch to the REG position and remove the printer cover.



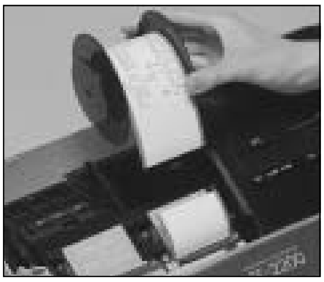
Step 2

Press [JOURNAL FEED] to feed about 20 cm of paper.



Step 3

Cut the journal paper at the point where nothing is printed.



Step 4

Remove the journal take-up reel from its holder.



Step 5

Remove the paper guide from the take-up reel.



Step 6

Slide the printed journal from the take-up reel.



Step 7

Open the platen arm.



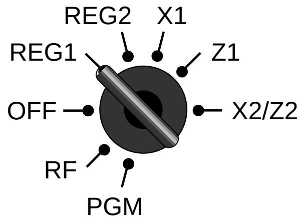
Step 8

Remove the old paper roll from the cash register.

Step 9

Load new paper.
Go to the step 3 described on page 13 of this manual.

To replace receipt paper





Step 1

Set the mode switch to the REG position and remove the printer cover.



Step 2

Open the platen arm.



Step 3

Remove the old paper roll from the cash register.

Step 4

Load new paper.
Go to the step 3 described on page 12 of this manual.

User Maintenance and Options

Options

Roll paper:	P-5880T	External printer:	UP-360
Wetproof cover:	WT-87	Cable:	PRT-CB-8A or PRT-CB-8B
Hand held scanner:	HHS-15	Slip printer:	SP-1300
		Cable:	PRT-CB-8C
		Power supply:	31AD-U or 31AD-E

Consult with your CASIO dealer for details.

Specifications

Input method

Entry:	10-key system, buffer memory 8 keys (2-key roll over)
Department:	Full key system

Display

Main:	Amount 10 digits (zero suppression); No. of repeats, total, change, transaction indicator Descriptor 16 digits × 2 lines; item descriptor, No. of items, mode, clerk name
Customer:	Amount 8 digits (zero suppression): total, change indicator

Printer

Receipt:	Thermal alpha-numeric system 24 digits, receipt on/off switch (key) Store name or slogan is printed automatically
Journal:	Thermal alpha-numeric system 24 digits Automatic take up roll winding
Paper roll:	58 (W) × 80 (D) mm
Paper thickness:	0.06 ~ 0.085 mm
Paper feed:	Separate for receipt and journal
Print speed:	About 14 l/s

Listing capacity

Amount:	99999999
Quantity:	9999.999
Tendered amount:	9999999999
Percent:	99.99
Tax rate:	9999.9999
Numbers:	9999999999999999

Chronological data

Date print:	Automatic date printout on receipt or journal, automatic calendar
Time print:	Automatic time printout on receipt or journal, 24-hour system/12-hour system

Alarm

Key catch tone, error alarm, sentinel alarm

Memory protection battery

48-hour full charge protects memories for approximately 90 days.
Battery should be replaced every five years.

Power supply/power consumption

See the rating plate.

Operation temperature

0˚C ~ 40˚C (32˚F ~ 104˚F)

Humidity

10 ~ 90%

Dimensions and weight

277mm (H) × 400mm (W) × 450mm (D) / 12kg …with medium size drawer
(10 7/8" (H) × 15 3/4" (W) × 17 3/4" (D) / 26lbs. 7oz.)

Totalizers	Contents					
Category	No. of totalizers	Amount (10 digits)	No. of items (6 integer/3 decimal)	Count (4 digits)	No. of customers (6 digits)	Periodic totalizers
Department	Up to 99	✔	✔			✔
PLU	Up to 5000	✔	✔			
Clerk	15	✔	✔	✔	✔	✔
Hourly sales	24	✔			✔	
Monthly sales	31	✔	✔		✔	
Transaction	Variable with program					✔
Non ressettable grand total	3	✔ (16 digits)				
Reset counter	12/15			✔		
Consecutive No.	1			✔ (6 digits)		

**** Specifications and design are subject to change without notice.***

CASIO®

TE-2400*E

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